Training for the New Georgia Performance Standards
Day 5: Differentiation

Content Facilitator’s Guide
Science Grades K-2, 8

We will lead the nation in improving student achievement.
Acknowledgements

This training program was developed by the Georgia Department of Education as part of a series of professional development opportunities to help teachers increase student achievement through the use of the Georgia Performance Standards.

Use of This Guide

The Content Facilitator's Guide includes the PowerPoint Presentation, and supplementary materials. It is available in print copy and CD to designated trainers throughout the state of Georgia who have successfully completed a Train-the-Trainer course offered through the Georgia Department of Education.

Materials (guides, presentations, etc.) will be available also electronically on http://www.georgiastandards.org under the training tab after all trainings of Day 5 have occurred. Consult the trainer for availability.
# Table of Contents

Acknowledgements .......................................................................................................................... 2
Use of This Guide ............................................................................................................................ 2
Table of Contents ............................................................................................................................ 3
Overview ......................................................................................................................................... 5
  Goals ........................................................................................................................................... 5
  Module Sequence ......................................................................................................................... 5
  Module Materials for Day 5 of Training ....................................................................................... 6
Recommended Readings/Viewings/Websites: Differentiation ...................................................... 7
Specialists’ Contact Information ................................................................................................... 9
Agenda ........................................................................................................................................... 10
Introduction to Differentiation ....................................................................................................... 11
  Differentiation ............................................................................................................................ 12
  Defining Differentiation, an Introduction .................................................................................. 16
  The Three Stages of Standards-Based Education, A Review ...................................................... 20
  Looking Inside Our Classrooms ................................................................................................. 23
  Some Underlying Assumptions of Differentiated Instruction .................................................... 24
The What, How, and Why of Differentiation ................................................................................... 27
  Overview of What, How, and Why of Differentiation ................................................................. 28
  What Does Differentiation Look Like ....................................................................................... 30
  What Does Differentiation Look Like: A True/False Quiz ......................................................... 31
  Range of Activities in a Differentiated Classroom ....................................................................... 35
  Pre-Assessment Strategies ......................................................................................................... 36
  What to Differentiate ................................................................................................................ 39
  Teacher checklist for Group Work ............................................................................................. 46
  Strategies for Managing a Differentiated Classroom ................................................................. 48
  The Equalizer ............................................................................................................................. 52
  Guided Practice: Analyzing a Differentiated Task ..................................................................... 53
  Differentiation .......................................................................................................................... 55
The Role of the Teacher in a Differentiated Classroom ..................................................................... 57
  Rethinking Our Roles ............................................................................................................... 58
  A Traditional Classroom Compared with a Differentiated One ................................................ 59
  Setting Personal Goals for Differentiating ................................................................................ 65
  Low-Prep and High Prep Differentiation ................................................................................... 66
  Action Plan ................................................................................................................................ 67
Glossary .......................................................................................................................... 70

Appendix .......................................................................................................................... 72
   Some Underlying Assumptions of Differentiated Instruction ........................................ 73
   What Does Differentiation Look Like: A True/False Quiz ............................................. 74
   Examining Differentiating Tasks .................................................................................. 75
   Instructional Accommodations for ELLs ...................................................................... 76
   Georgia Department of Education, GPS Differentiation Menu .................................... 78
   Student-Created Products ............................................................................................ 83
   Day 6 Assignment ........................................................................................................ 85
   Permission Forms for Student Work ............................................................................ 86
   CONSENT AND ASSIGNMENT ................................................................................. 86
   CONSENT AND ASSIGNMENT ................................................................................. 87
   Sternburg’s Triarchic Theory of Intelligence .................................................................. 88
   Anchor Activities .......................................................................................................... 90
   Learning Centers .......................................................................................................... 91
   Learning Contracts ......................................................................................................... 92
   Menu Planner ................................................................................................................ 93
   RAFT .............................................................................................................................. 94
   Think Dots ..................................................................................................................... 96
   Think Tac Toe .............................................................................................................. 97
   Tiered Assignments ....................................................................................................... 98
   Bingo! ............................................................................................................................. 99
   Walking Into and Through a Picture ............................................................................ 100
   Product Ideas for Reviewing and Reporting .................................................................. 101
   Idea Blog ...................................................................................................................... 104
   Cubing ............................................................................................................................ 105
Overview

Goals

By the end of Day 5 of training, participants will be able to:
1. Define differentiation and explain the importance of differentiation in the standards-based education process.
2. Explain key elements in planning for differentiation.
3. Describe and develop procedures for differentiating instruction in a flexible classroom.
4. Describe and develop effective classroom management strategies in a differentiated classroom.
5. Describe the roles of the teacher in a differentiated classroom.
6. Set individual goals for differentiating instruction in each classroom.
7. Identify & support struggling learners using a pyramid of intervention.

Module Sequence

Prior Preparation—Participants will have attended Days 1 through 4 of GPS training; or, if replacing another trainer, be thoroughly trained in the knowledge, skills, and conceptual understandings introduced in Days 1 through 4.


Introduction to Differentiation (1½ hours)
- Defining Differentiation, An Introduction
- The Three Stages of Standards-Based Education, A Review
- Looking Inside Our Classrooms

The What, How, and Why of Differentiation (3½ hours)
- Overview of What, How, and Why of Differentiation
- Guided Practice Analyzing a Differentiated Task
- True/False Quiz: What Does Differentiation Look Like?

The Teacher’s Role in a Differentiated Classroom (1 hour)
- Rethinking Our Roles
- Setting Personal Goals for Differentiating
Module Materials for Day 5 of Training

Content Facilitator’s Kit contents:

- Content Facilitator’s Guide (one for each leader)
- Complete set of slide transparencies (PowerPoint)

Other materials needed:

- Name tags
- Flipchart paper and stand
- A number of colored markers for flipchart
- Sticky notes
- Masking tape to post chart paper

Equipment:

- Overhead projector or computer and LCD projector
Recommended Readings/Viewings/Websites: Differentiation

**Note:** A more general list of resources for the standards-based education process is contained in the materials for Day 1 of training.

This excellent resource includes three VHS tapes and a Facilitator’s Guide. The videos provide clips of real differentiated classrooms and include commentary by Carol Ann Tomlinson. One set of these materials is being sent to each local system.

[http://ericc.org/digests/e510.html](http://ericc.org/digests/e510.html).
Berger provides an overview of four areas of differentiation: content, process, product, and learning environment. In addition, she lists seven guiding principles for curriculum differentiation developed by the curriculum committee of the Leadership Training Institute.

This report examines information on the theory and research behind differentiated instruction and the intersection with Universal Design for Learning (UDL), a curriculum designed approach to increase flexibility in teaching and decrease the barriers that frequently limit student access to materials and learning in classrooms. The report includes a number of links to sites with more information about differentiated instruction.

Using varying types/levels of graphic organizers provides one means of differentiating content or process. This website includes a number of different types of graphic organizers along with explanations and suggestions for their use. Links to other resources may also be valuable.

[http://www.literacymatters.org/content/isearch/intro.htm](http://www.literacymatters.org/content/isearch/intro.htm).
Individual and group investigations, valuable strategies for differentiation, may be organized as I-Searches. An I-Search can actively engage students in the research process as they pursue questions of importance that they care about. This site explains one version of the I-Search process.

This article examines the potential benefits of standards-based instruction for English Language Learners (ELLs), presents a standards-based process for designing standards-based instructional units, and reviews the design of two standards-based units for ELLs. The benefits of performance standards for ELLs are clearly represented in a chart included in the article.

This site, developed by Renzulli Learning Systems, provides comprehensive enrichment and differentiation activities for students. Beginning by determining an individual student's profile—interests, abilities, preferred style of expression, and learning style—this site then matches individual students with a number of enrichment and differentiation opportunities. Although the resource is still in the development stage, this URL offers teachers a free trial opportunity to navigate the site.

This introduces a framework for utilizing technology to address the needs of all students and meet the challenges posed by high standards and increased student diversity.

Use this twelve item teaching style inventory to self-assess and self-score your teaching style in the areas of concept representation, learning, interaction, and cognitive processing.

This valuable resource explains both the theory behind and the means to achieve differentiation in mixed-ability classrooms. Each school received one copy of this resource along with other materials in the fall of 2004.

Tomlinson provides a view into three separate classrooms to illustrate what a differentiated classroom does and does not look like.
In this book, Tomlinson discusses the what, how, and why of differentiation, and provides examples from a number of differentiated classrooms.

This resource provides a brief primer on differentiation, as well as six differentiated units of instruction for grades K-5: two language arts units, two mathematics units, one science unit, and one social studies unit.

This resource provides a brief primer on differentiation, as well as six differentiated units of instruction for grades 5-9: one language arts unit, one mathematics unit, one science unit, two social studies units, and one French unit.

This resource is scheduled to be published in August of 2005.

Specialists’ Contact Information

For a list of district coordinators visit the Georgia Learning Connection:

English Language Learners
http://www.glc.k12.ga.us/contact/contact.asp?groupname=ESOL+District+Coordinators

Gifted and Talented
http://www.glc.k12.ga.us/contact/contact.asp?groupname=Gifted+Education

For specialists at the Georgia Department of Education:

English Language Learners - Chris Scott
cscott@doe.k12.ga.us

Gifted and Talented - Linda Andrews
liandrew@doe.k12.ga.us

Exceptional Students (Special Education)—Marlene Bryar
mbryar@doe.k12.ga.us
Agenda

This is a one-day course, with approximately 6 hours of instructional time.

Introduction to Differentiation........................................................................................................ 1½ hours
  ➢ Defining Differentiation, An Introduction
  ➢ The Three Stages of Standards-Based Education, A Review
  ➢ Looking Inside Our Classrooms

The What, How, and Why of Differentiation.................................................................................... 3 ½ hours
  ➢ Overview of What, How, and Why of Differentiation
  ➢ True/False Quiz: What Does Differentiation Look Like?
  ➢ Guided Practice Analyzing a Differentiated Task
  ➢ Strategies for Differentiation

The Teacher’s Role in a Differentiated Classroom............................................................................. 1 hour
  ➢ Rethinking Our Roles
  ➢ Setting Personal Goals for Differentiating
  ➢ Utilize the Pyramid of Intervention Strategy
Introduction to Differentiation

Time

1 1/2 hours

Overview

In the introduction, the participants share their preconceptions about differentiation and relate these preconceptions to Carol Ann Tomlinson’s statements about differentiation. Then, the group reviews Days 1-4 of the Standards-Based Education Process and examines the importance of differentiation in this process.

Objectives

➢ Define differentiation and explain the importance of differentiation in the standards-based education process.
➢ Explain key elements in planning for differentiation.

Activities

➢ Share Preconceptions About Differentiation
➢ Review Stages One, Two, and Three of SBE Process
➢ Self-Evaluate

Materials

➢ Overhead projector or computer and LCD projector
➢ Transparencies or PowerPoint presentation
Differentiation

Title Slide    Show title slide and welcome participants to training.

Note Cards     ➢ As participants come into the training session, have them fill out an index card with their name and contact information. Explain that you will use the information to send them materials and set up a dialogue with the group.

➢ Have them note their status in understanding of Georgia Performance Standards: They attended last year’s training in science, they attended redelivery of science, and they have heard about the standards they attended training or redelivery of another subject, or they have no previous experience with GPS.

You may wish to share your contact information with them at this time.
Show slide, Group Norms and Housekeeping.

Have participants who are local give ideas for lunch locations.

Ask: What questions can I answer about today's agenda before we continue?
1. Show slide, Essential Question 1.

Slide: 

Essential Question 1

Essential Question #1

What does differentiation imply and how does differentiation fit into the standards-based education process?

2. Read the quotes on the slide. Have groups choose one to discuss. Share thoughts and set focus for the day.

Choose one to discuss.

“The biggest mistake of past centuries in teaching has been to treat all children as if they were variants of the same individual and thus to feel justified in teaching them all the same subjects in the same way.” Howard Gardner

• “Differentiation doesn’t suggest that a teacher can be all things to all individuals all the time. It does, however, mandate that a teacher create a REASONABLE RANGE OF APPROACHES to learning much of the time so that most students find learning a fit much of the time.” Marcia Imbeau
3. Ask:
What misconceptions and obstacles keep us from differentiating for all students?

How can we minimize the barriers?

What do we need to accomplish to have a better classroom environment for all students?

Who needs the differentiation? What does our classroom look like?

Transition  Let’s look at diverse learners.
Defining Differentiation, an Introduction

4. Present:

- In order to meet the needs of diverse learners in our classrooms, we must differentiate instruction to meet those needs. Let’s take a minute to list some of the characteristics of diverse learners we have in our classrooms.
- Have participants make charts listing diverse learners and their characteristics.

- Expect or work to elicit responses such as:
  - advanced or gifted learners
  - struggling learners
  - English language learners
  - students with disabilities
  - students with varying degrees of experiences and/or prior knowledge
  - students with personal or family problems that inhibit their ability to learn
  - students with varying interests and/or attention spans.

5. Present:

- As we can see from this list, the needs of the diverse learners we encounter in our classrooms each year can’t be addressed with a “one size fits all” approach to teaching and learning.
- In today’s workshop, we will be focusing on differentiation of instruction in order to address the needs of all students. But just what do we mean when we use the term differentiation? Let’s take a few minutes to identify our preconceived notions of differentiation.
- In your table groups, brainstorm your ideas about differentiation then discuss your brainstormed lists.
- Put ideas on sticky notes and post them on the chart next to the diverse learner it would impact.

Allow 7-10 minutes for the table groups to discuss, and then ask each group to share their ideas.
Present:

- In the past few minutes we have touched on a number of ideas about diverse learners and differentiated instruction, and we will spend the remainder of today exploring many of these ideas. However, a thorough and comprehensive study of differentiation is beyond the scope of our workshop today.

- ASCD has prepared a series of materials on differentiation that will complement and enhance the information from today’s training. This series, *At Work in the Differentiated Classroom*, Alexandria, VA: ASCD, 2001, includes three VHS tapes and a Facilitator’s Guide. The videos provide clips of real differentiated classrooms and include commentary by Carol Ann Tomlinson.

- The facilitator’s guide of this set of materials suggests formats for utilizing the videos and other materials. One set of these materials was provided to each local school system and each RESA.

- In addition, each system received one copy of *Differentiation in Practice, Grades K-5* and one copy of *Differentiation in Practice, Grades 5-9*.

- I strongly recommend that you use these resources to further your conceptual understanding of differentiation.

- Let’s take a look now at some of the experts’ statements about differentiation.
Show slide, \textit{What is Differentiation?}

Differentiation is a way of teaching. Teachers \textit{proactively} modify curriculum, teaching methods, resources, learning activities, and student products to address the needs of students to maximize the learning opportunity for each student in the classroom.


Let's examine the key elements here: “Differentiation can be defined as a way of teaching in which teachers \textit{proactively} modify curriculum, teaching methods, resources, learning activities, and student products to address the needs of individual students and/or small groups of students to maximize the learning opportunity for each student in the classroom.”

What does it mean when we say differentiation is “a way of teaching?”

Allow participants to respond. Summarize responses and conclude: Differentiation is not merely a single strategy or bag of tricks we can pull from. Differentiation is more a philosophy that requires us to rethink teaching and learning in order to understand not only what to do but also why it matters . . . to rethink not only our instructional decision-making but also the learning environment and what our classrooms look and feel like . . . to rethink everything we do in light of the potential for the academic growth of all students.

In a differentiated classroom we modify curriculum, teaching methods, resources, learning activities, and student products \textbf{PROACTIVELY}.

We make the conscious decision to offer multiple ways of learning and multiple means of providing evidence of learning that are based on our assessments of the needs of those students or groups of students in our classrooms, assessments that are continuous and ongoing.
Show next slide, *What is Differentiation?*

**What is Differentiation?**
- Differentiation adapts what we teach, how we teach and how students learn, and how students show what they have learned based on the readiness levels, interests, and preferred learning modes of students.
- Differentiation is classroom practice that looks eyeball to eyeball with the reality that kids differ, and the most effective teachers do whatever it takes to hook the whole range of kids on learning.

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- Assessment is the bedrock of a differentiated classroom. In order to meet the needs of individual students or groups of students, we must be cognizant of our students’ prior knowledge and experiences, as well as of their readiness to learn those skills and concepts included in different units of instruction.

- Because individual students have a variety of strengths and weaknesses, assessing readiness is continuous and ongoing. A student, for example, may read fluently and comprehend sophisticated texts but, at the same time, have difficulty communicating his/her ideas in writing.

- We must also explore and address the individual interests of our students. As Wiggins and McTighe emphasize, engaging students is an essential step toward student learning; and tapping into the interests of our students is one way to hook them.

- Finally, as we have discussed in our previous days of training, students learn and provide evidence of learning via different modalities. Knowing the learning styles and preferences of our students allows us to provide instruction and assessment opportunities that work best for those students.

- Transition: I’ve just referred to what we’ve discussed on previous training days, but we may not all be at the same readiness level in terms of our prior knowledge and experience with the SBE process, so let’s review that process before we move on.
The Three Stages of Standards-Based Education Review

Slide: The SBE Model
1. Show slide, The Standards-Based Education Model. [Trainer's Note: Click to show each stage of the model.]

- How does all of this fit into the Standards-Based Education process? To answer this question, we need to review the stages of the standards-based education process.
- [Trainer’s Note: Name each of the three stages and click to show that information on the slide.]
Ask participants: **What connections do you see between assessment and differentiation?**

- Allow for responses, then say: **Tomlinson and Eidson stress the connections between assessment and differentiation.** They note that “everything a student says and does is a potential source of assessment.” Assessment is ongoing. First we must pre-assess to determine a student’s “knowledge, understanding, and skill set related to an upcoming unit or lesson” because it’s “critical for the teacher in a differentiated classroom to have a sense of student starting points.”

- **Tomlinson and Eidson specify that assessment must also occur throughout the unit to continuously figure out a student’s knowledge, understanding, and skill set as s/he progresses through the unit; and final assessments should involve more than one format, for example, a product as well as a test or essay.**

Ask participants: **Does differentiation also play a part in Stage Three: Making Instructional Decisions? How?**

Allow for responses, then say: **As we saw from Rick Stiggins' work, assessment for learning means using assessment to make instructional decisions.** We plan instruction based on what we find out each day about our students’ progress toward the learning goals.

**Slide:**

*Grant Wiggins’ quotation*

Show slide, *Grant Wiggins’ quotation.*

---

**According to Grant Wiggins:**

"Good planning leaves room for the unplannable. You do not know what you’ll be doing on April 11, and you’re a fool if you think so. If you do, then the curriculum is more important to you than your students."

Present:

- At the ASCD conference on differentiation held in New York in June of 2005, Grant Wiggins stated that "Good planning leaves room for the unplannable. You do not know what you'll be doing on April 11, and you're a fool if you think so. If you do, then the curriculum is more important to you than your students."

- Wiggins may be exaggerating. He certainly advocates using the SBE model to plan instruction at the course and unit levels, so he's not saying we shouldn't plan. However, the message here is clear: in a differentiated classroom, teachers intervene and adjust instruction to meet the needs of the learners in that classroom; and that means using feedback from Monday's class to determine exactly what I need to do on Tuesday. Therefore, I will plan instruction carefully, but I must be willing to modify those plans to meet the needs of the students each day in my classroom.

Transition: So far we've been speaking theoretically about differentiation. Before we move on to the what, how, and why of differentiating on a practical level, let's each apply some basic assumptions underlying differentiated instruction to our own classroom practices.
Looking Inside Our Classrooms

1. Present:

- As stated previously, establishing a differentiated classroom is a way of thinking about teaching. Most of us are already at work implementing the Georgia Performance Standards in our classrooms. You've identified the learning goals for a unit of instruction, prepared an assessment plan, and made instructional decisions. We'll be talking specifically about the what, how, and why of differentiation a bit later, but first let's take a minute to pre-assess.

- Let's each look inside our individual classrooms to see where we are before we determine where we hope to go and how we're going to get there.

- Think about the unit of instruction that you are currently teaching. Use the list of “Some Underlying Assumptions of Differentiated Instruction.” (This is the next page in the guide. There is a duplicate copy in the Appendix of this guide.) If you are not currently teaching a unit plan, just respond with a particular unit of instruction in mind.

- Read each assumption and assess your own “way of thinking about teaching” by marking the star if this assumption is implicit in your practice throughout the unit, the smiley face if you've taken this assumption into consideration in some way for this unit and the question mark if you need to think about your practice in terms of this assumption. You have approximately 10 minutes for this activity.
Some Underlying Assumptions of Differentiated Instruction

Read each assumption and assess your own “way of thinking about teaching” by marking the star if this assumption is implicit in your practice throughout the unit, the smiley face if you've taken this assumption into consideration in some way for this unit and the question mark if you need to think about your practice in terms of this assumption.

<table>
<thead>
<tr>
<th>The Underlying Assumption</th>
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</thead>
<tbody>
<tr>
<td>1. I have planned this unit to accommodate multiple and varied learning needs (social as well as cognitive), rather than attempting to accommodate them after student frustration or failure.</td>
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<tr>
<td>2. I work to create and maintain a classroom community where students feel safe and valued as they are; at the same time I support each student in order to maximizing his or her potential.</td>
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<tr>
<td>3. I interact with each student with positive regard and positive expectations.</td>
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<tr>
<td>4. I recognize every student has both talents and areas of need, and I emphasize the student's strengths rather than accentuating labels, deficits, or differences. At the same time, I do not call attention to the differentiation, but rather I help students appreciate varied ways in which all of them can find personal success with important goals.</td>
<td></td>
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</tr>
<tr>
<td>5. I use multiple and alternative forms of assessment at all stages of student learning in this unit in order to uncover and address a full range of learning needs and strengths.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>6. I gather and employ knowledge and information about my students in order to identify and address their varied readiness levels, interests, and learning profiles during this unit.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>7. I find ways to provide access for all students to meaningful and powerful ideas, information, and skills in this unit rather than reducing the standards, watering down the curriculum, or assigning busy work.</td>
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</tr>
<tr>
<td>8. I use multiple methods in this unit to engage students in active learning. Although I may employ whole-class instruction, I know that differentiation does not take place during whole class instruction.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>9. I work to develop classroom management skills that allow 1) multiple tasks to proceed smoothly in the classroom, 2) students to take increasing responsibility for their learning, and 3) the time to monitor student activity and coach for student growth and quality work.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>10. I accept responsibility for successful teaching and learning of each student in the class while working collaboratively with specialists to ensure success of individuals and the class as a whole.</td>
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</tr>
</tbody>
</table>

2. After approximately 10 minutes, say: **This pre-assessment is for your own use, but let's take a moment or two to debrief the activity and relate it to what we've looked at earlier this morning.**

3. Ask: **What are the important points that you have learned about differentiation so far?** [Allow participants to share what they've learned. Use this to summarize important points about differentiation before moving on to the next section of the training.]

4. Show slide, Essential Answer #1.

   **Essential Answer #1—Let's Discuss**
   
   What does differentiation imply and how does differentiation fit into the standards-based education process?

5. Present:

   As Tomlinson makes clear, differentiation involves beginning where our students are; however, as we all know, our students may not all be at the same place at the same time.

    To differentiate effectively, Tomlinson and Eidson advocate six essential principles to guide our decision making.
7. Show slide: Essential Principles of Differentiation.

We've already discussed the importance of having a rigorous curriculum for all students.

What do you think we mean when we say the “all tasks should be respectful of the learner?” [Allow participants to respond before going on.]

To challenge every learner, Tomlinson says “when in doubt, teach up.” What’s your response? [Allow participants to respond before going on.]

We’ll discuss assessment and flexible grouping in the next section.

The final essential principle of differentiation focuses on grading. We’re going to reserve our discussion of fairness and grading in a differentiated classroom for Day 6 of training when we look more closely at examining student work.

Keep these essential principles in mind as we move on to the next section and look at the what, how, and why of differentiation.
The What, How, and Why of Differentiation

Time 3½ hours

Overview In this section will focus on the what, how, and why of differentiation. Topics of discussion will include readiness, student interests, and learning profiles; ways of differentiating content, process, product, and the learning environment; and access to learning, motivation to learn, and efficiency of learning. Participants will be provided with a guide for differentiating, and they will use this guide along with the information presented to prepare a plan for differentiating in a mixed-ability classroom.

Objectives

➢ Explain key elements in planning for differentiation.
➢ Describe and develop procedures for differentiating instruction in a flexible classroom.
➢ Discuss effective classroom management strategies in a differentiated classroom.

Activities

➢ Overview of What, How, and Why of Differentiation
➢ True/False Quiz: What Does Differentiation Look Like?
➢ Strategies—Practice using Differentiation
➢ Make and Take

Materials

➢ Chart paper and markers
➢ Transparencies or PowerPoint presentation
Overview of What, How, and Why of Differentiation

Slide: Essential Question 2


Essential Question #2

How do I know what to differentiate, how to differentiate, and why to differentiate in order to best meet the needs of the students in my classroom?

[ Trainer’s Note: This section contains a great deal of information. Plan so that sufficient time is allotted for the application of this information. Several of the handouts included in the Facilitator’s Guide can be noted as resources without going into detail. ]

2. Present:

➢ Differentiating in a mixed-ability classroom involves a complex process. It’s not as simple as deciding to differentiate and “voilà,” the next day or week or semester we’ve accomplished our goal.

➢ We need to work toward a more differentiated classroom one day at a time. As with all journeys, this one begins with the first step. Coming together to talk in a collegial way about differentiation is that first step.

➢ In this section of today’s workshop, we will look at a number of aspects of differentiation that will help us make informed decisions about differentiating in our classrooms.
3. Present:
   - **Each day when we enter our individual classrooms, we encounter students with diverse needs, abilities, and interests.** Think for a moment about the students sitting in your classroom at this moment. Providing each of those students access to a rigorous curriculum is our goal.

   - **This, however, does not mean we must individualize instruction for every student.** Rather it means we must plan for the diverse groups of students we meet each day.

   - **Children already come to school differentiated. Students in today's classrooms represent a broad range of academic readiness, interests, learning profiles, modes of learning, and cultures.**

   - **To maximize the potential for each learner, educators need to meet each child at his or hers starting point and ensure substantial growth during each school term.** Sometimes that means pushing our students beyond their comfort zones.


**The Business of Schools is**

To produce work that engages students, that is so compelling that students persist when they experience difficulties, and that is so challenging that students have a sense of accomplishment, of satisfaction—indeed, of delight—when they successfully accomplish the tasks assigned.
What Does Differentiation Look Like

Slide: True/False Quiz

5. Show slide: True/False Quiz.

A True/False Quiz:
What Does Differentiated Instruction Look Like?

Directions:
• Turn to page 33 in your guide. There is a duplicate in the appendix.
• Mark each item T if it is TRUE for a differentiated classroom or F if it is FALSE for a differentiated classroom.
• After you have responded individually, think/pair/share to compare your answers to the others in your table group.
• When you disagree, discuss your various points and attempt to reach consensus.
• Be prepared to share important points with the whole group.

To conclude this section, we're going to take a brief True/False Quiz.

You will find this quiz in this guide on the next page and a duplicate copy in the Appendix.

Follow the directions on the slide to complete the quiz. Tomlinson had responses to these items; but remember they may be more than one way of looking at a particular item. Context is significant when discussing aspects of differentiation.

You have 10-12 minutes for this activity and then we will compare our answers.

Allow time for participants to discuss, compare, and provide reasons for their answers BEFORE revealing the next slide with one person’s “right” answers.
What Does Differentiation Look Like: A True/False Quiz

Directions: Mark the item **T** if it is TRUE for a differentiated classroom or **F** if it is FALSE for a differentiated classroom. After you have responded individually, compare your answers to the others in your table group. When you disagree, discuss your various points and attempt to reach consensus.

_____ 1. Allowing all students in the class completing the same work for a unit/chapter
_____ 2. Assessing students before a unit of instruction to determine what they already know
_____ 3. Adjusting the core curriculum by content (below to above grade level)
_____ 4. Limiting how and what is taught by teaching to the average student
_____ 5. Providing assignments tailored for students of different levels of achievement
_____ 6. Having high expectations for ALL students
_____ 7. Providing educational experiences which extend, replace, or supplement standard curriculum
_____ 8. Assigning more work at the same level to high achieving students
_____ 9. Focusing on student weaknesses and ignoring student strengths
_____ 10. Using activities that all students will be able to do
_____ 11. Structuring class assignments so they require high levels of critical thinking and allow for a range of responses
_____ 12. Giving the same kind of problems or questions and expecting more
_____ 13. Creating more work such as extra credit work, to do when assignment is completed
_____ 14. Having students participating in respectful work
_____ 15. Putting students in situations where they don't know the answer- often
_____ 16. Ensuring that students and teachers are collaborating in learning
_____ 17. Providing free-time challenge activities
_____ 18. Differing the pace of instruction
_____ 19. Using capable students as tutors
_____ 20. Using higher standards when grading
_____ 21. Blending of whole class, group, and independent learning
_____ 22. Using individualized instruction
7. **Show slide: How Do We Differentiate?**

**How Do We Differentiate?**

We determine how to differentiate by assessing the readiness, interests, or learning profile of particular students or groups of students.

---

**Slide: How Do We Differentiate?**

7. **Show slide: How Do We Differentiate?**

---

**Pre-Assessment**

- A way to determine what students know about a topic before it is taught or the skill level of students before instruction begins.
- A means to help the teacher determine flexible grouping patterns as well as which students are ready for different levels of instruction.
10. Present:

- **Pre-assessment** allows us to make the appropriate instructional decisions for each of our students. It also helps us to decide how to use flexible grouping to maximize learning.

- Tomlinson uses a chart to illustrate the range of activities in a differentiated classroom. This chart is on page 35 in this guide.

- In a differentiated classroom, students work in a variety of instructional arrangements, some whole class, some small group, some individual, and some student-teacher conferences.

- At times groups may be formed with students of similar levels of readiness, interests, or learning styles; other times groups may be made up of individuals with a range of abilities interests, or learning styles.

- Most importantly, the constitution of these groups changes throughout a unit or course of study based on the needs and/or growth of the students. Flexible grouping is an integral part of a differentiated classroom. Tomlinson and Eidson define flexible grouping as the “purposeful reordering of students into working groups to ensure that all students work with a wide variety of classmates and in a wide range of contexts during a relatively short span of time” (*Differentiation in Practice*, Grades 5-9, 235).

- Pre-assessment helps teachers determine the most effective activity formats and/or groups for particular purposes and to meet the needs of the diverse learners in the class.

11. Show slide: Pre-Assessment Strategies.
Present:

12. This slide lists a number of pre-assessment strategies. You can find this list on page 36.

As you can see, testing is but one way to pre-assess.

Assessing certain students or groups of students such as English Language Learners (ELLs) and learners with special needs often requires specific knowledge and skills. Our focus for today is on differentiating in the mixed ability classroom.

While all classroom teachers work with diverse populations, including English language learners and students with special needs, specialists are available at the school, system, or state level to assist in these areas. For specialists’ contact information, see page 9.

A few resources related to English language learners and students with special needs are included in the Appendix. These include an overview of the factors involved in assessing English language learners, a list of instructional accommodations for ELLs, and a differentiation menu for students with special needs.

Assessment is ongoing throughout any unit of instruction. We don't make differentiation decisions one time and move on. Differentiation is ongoing and guided by continuous assessment.
Range of Activities in a Differentiated Classroom

Classroom Instructional Arrangements

Whole Class Activities

- Pre-assessment
- Exploration (readiness/interest)
- Introduction
- Planning
- Sharing
- Wrap-up of Concepts

Small-Group Activities (Pairs, Triads, Quads)

- Sense-Making
- Investigation
- Teaching Skills
- Directed Reading
- Planning

Individualized Activities

- Compacting
- Practice & Apply Skills
- Interest Centers
- Independent Study
- Testing
- Sense-Making
- Homework
- Products

Student-Teacher Conferences

- Assessment
- Tailoring & Planning
- Guidance
- Evaluation

**Pre-Assessment Strategies**

- teacher prepared pretest
- KWL charts and other graphic organizers
- writing prompts/ samples
- questioning
- guess box
- picture interpretation
- prediction
- teacher observation/ checklists
- student demonstrations and discussions
- initiating activities
- informational surveys/ questionnaires/ inventories
- student interviews
- student products and work samples
- self-evaluations
- portfolio analysis
- game activities
- show of hands to determine understanding: every pupil response
- drawing related to topic or content
- standardized test information
- reader response survey
- anticipation journals
13. Show slide: What’s in the box?
14. Present: **Participants – ask yes or no question to determine the contents of the box.**

15. Show slide: Placemat –
16. Present: **Each group will make a place mat at their table or workspace.**

17. Show slide: What do we Differentiate?
18. Present: **There are four areas that we differentiate - content, process, product, and the learning environment.**
19. Present:

- In order to decide how to differentiate, we need to look at the four most effective means of differentiating.

20. Show slide: What to Differentiate. [Trainer's Note: Click to reveal each of the four means of differentiation, one at a time.]

- The content of this slide is also on page 39.
**What to Differentiate**

**Content**
Content consists of ideas, concepts, descriptive information, and facts, rules, and principles that the student needs to learn. Content can be differentiated through depth, complexity, novelty, and acceleration. Content includes the means by which students will have access to information. Materials can vary according to reading level or by employing text materials on tape.

**Process**
Process is the presentation of content, including the learning activities for students, the questions that are asked, as well as the teaching methods and thinking skills that teachers and students employ to relate, acquire, and assess understanding of content.

**Learning Environment**
The learning environment is the way the classroom looks and/or feels, including the types of interaction that occur, the roles and relationships between and among teachers and students, the expectations for growth and success, and the sense of mutual respect, fairness, and safety present in the classroom.

**Products**
Products are the culminating projects and performances that result from instruction. They ask the students to rehearse, apply, or extend what s/he has learned in a unit. A product or performance provides the vehicle that allows students to consolidate learning and communicate ideas.
21. Present:

- Let’s take a closer look at each of these four means of differentiating.

- Time does not allow us to discuss all the possible differentiation strategies; however, a glossary of many of these strategies is provided in the Appendix on pages 75-81.

Slide: Content

22. Show slide: Content. [Trainer’s Note: Present the information from each slide and ask participants to suggest additional strategies for each before going on to the next.]

Content consists of ideas, concepts, descriptive information, and facts, rules, and principles that are presented to the learner. Content can be differentiated through depth, complexity, novelty, and acceleration. Examples of differentiating content include the following:

- using materials at varying readability levels
- putting text materials on tape
- using spelling or vocabulary lists at readiness levels of students
- meeting with small groups to re-teach an idea or skill for struggling learners, or to extend the thinking or skills of advanced learners

(Tomlinson, C. A., Differentiation of Instruction in the Elementary Grades, August 2000)

Some Strategies for Differentiating Content

<table>
<thead>
<tr>
<th>Readiness testing</th>
<th>Concept-based learning</th>
<th>Learning Contracts</th>
<th>Multiple curriculum units</th>
<th>Small group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learning styles/textual/visual</td>
<td>Concept-based learning</td>
<td>Learning Contracts</td>
<td>Multiple curriculum units</td>
<td>Small group</td>
</tr>
<tr>
<td>Multiple learning styles</td>
<td>Concept-based learning</td>
<td>Learning Contracts</td>
<td>Multiple curriculum units</td>
<td>Small group</td>
</tr>
<tr>
<td>Curricular compacting</td>
<td>Technology</td>
<td>Varying pace of learning and complexity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Process

Process is the presentation of content, including the learning activities for students, the questions that are asked, as well as the teaching methods and thinking skills that are used. Examples of differentiating process or activities include the following:

- using tiered activities through which all learners work with the same important understandings and skills, but proceed with different levels of support, challenge, or complexity
- providing interest centers that encourage students to explore subsets of the class topic of particular interest to them
- developing personal agendas (task lists written by the teacher and containing both in common work for the whole class and work that addresses individual needs of learners) to be completed either during specified agenda time or as students complete other work early
- offering manipulatives or other hands-on supports for students who need them
- varying the length of time a student may take to complete a task in order to provide additional support for a struggling learner or to encourage an advanced learner to pursue a topic in greater depth

(Tomlinson, C.A., Differentiation of Instruction in the Elementary Grades, August 2000)

Some Strategies for Differentiating Process

- Student Choice
- Tiered Curriculum
- Rubrics
- Learning Stages
- Similar Readiness Grouping
- Mixed Readiness Grouping
- Choice of Work Arrangement
- Anchor Activities
- Varied Journal Prompts
- Fun and Games
- RAFTS
- Cubing
- Think Dots
- Centers
- Choices (Intelligences)
- Tiered Lessons
- Contracts
24. Show K-2 or Grade 8 Tiered Lesson Slide

**Tiered Lesson (K-2)**

**S2P1:** Students will investigate the properties of matter and changes that occur in objects.

**Objects:** paper, glue and glue stick, water, ink, sugar, candle, scissors, paint, crayon

**Level 1:** Sort objects that are solids, liquids, or gases.

**Level 2:** Give examples of how objects can be changed physically.

**Level 3:** Experiment with objects that will freeze or melt at room temperature.

**Tiered Lesson (8)**

**S8P1:** Students will examine the scientific view of the nature of matter.

a. Distinguish between changes in matter as physical or chemical.

**Level 1:** Perform an experiment to determine whether a physical or chemical change has taken place.

**Level 2:** Design an experiment to show a physical or chemical change has taken place.

**Level 3:** Develop a game in which players will have to categorize changes in matter as physical or chemical.

Present: **For tier 1, use the place mat as a graphic organizer to sort the objects.**

**For tier 2, demonstrate a physical change using the materials provided (paper, etc.).**

**For tier 3, design an experiment involving melting as a physical change.**

25. Show 3 slides: Cubing, Cube Prompts, and Cubing- Bloom’s Taxonomy

26. Present: **In a classroom strategy known as cubing, students create cubes - large paper dice so to speak - that include concepts on each side.**
26. Participants will be given the cube template from the appendix and asked to create an example of a cube that supports one of the GPS.

27. Show slide: Products

28. Show slide: Ways to Differentiate Product

**Learning Environment**

The learning environment is the way the classroom looks and/or feels, including the types of interaction that occur, the roles and relationships between and among teachers and students, the expectations for growth and success, and the sense of mutual respect, fairness, and safety present in the classroom.

Examples of differentiating learning environment include:

- making sure there are places in the room to work quietly and without distraction as well as places that invite student collaboration
- providing materials that reflect a variety of cultures and home settings
- setting out clear guidelines for independent work that match individual results
- developing routines that allow students to get help when teachers are busy with other students and cannot help them immediately
- helping students understand that some learners need to move around to learn, while others do better sitting quietly

(Tomlinson, C.A., Differentiation of Instruction in the Elementary Grades, August 2000)

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31. Present:

**Classroom management is an integral part of the learning environment. In a differentiated classroom multiple activities may be taking place and multiple groups or other teaching/learning arrangements may be operating at any one time.**

Consequently, it is imperative to have classroom protocols in place for everything from what to do upon first entering the classroom, to how to move from activity to activity, to what to do if students finish early.

**Tape 2 of the ASCD set entitled At Work in the Differentiated Classroom focuses on classroom management. The DOE has provided each system and each RESA with a set of these materials, and we recommend that you view this tape to learn more about classroom management in a differentiated classroom.**

**There is a Teacher Checklist of Group Work just ahead in your manual.**
Another strategy is to use RICE:
If students are stuck about what to do next when you’re with a group...

(Tomlinson, 1999, p. 102)

R I C E

☐ They should first try hard to RECALL what you said.
☐ If that doesn’t work, they should close their eyes, see you talking, use good practical intelligence, and IMAGINE logically what the directions would have been for the task.
☐ If that doesn’t help, they can CHECK with a classmate (someone at their table or nearby doing the same task). This should be done in a whisper.
☐ If that doesn’t work, go to a designated EXPERT of the day who has the skills necessary to provide guidance. The EXPERT should continue with his work, stopping only long enough to help someone who is genuinely stuck.
Teacher checklist for Group Work

☐ Students understand the task goals.

☐ Students understand what's expected of individuals to make the group work well.

☐ The task matches the goals (leads students to what they should know, understand, and be able to do.”

☐ Most kids should find the task interesting.

☐ The task requires an important contribution from each group.

☐ The task is likely to be demanding of the group and its members.

☐ The task requires genuine collaboration to achieve shared understanding.

☐ The timelines are brisk (but not rigid).

☐ Individuals are accountable for their own understanding of all facets of the task.

☐ There’s a “way out” for students who are not succeeding with the group.

☐ There is opportunity for teacher or peer coaching and in-process quality checks.

☐ Students understand what to do then they complete their work at a high level of quality.

Tomlinson, 2000
Say: **There is another suggested list of classroom management strategies in the appendix.**

In small groups brainstorm a list of classroom management practices. Have groups report strategies and record their ideas on a chart. Refer participants to tips on the next page for a list of strategies for managing a differentiated classroom by Carol Ann Tomlinson.

28. Say: **Before we put these ideas into practice, let’s take a quick look at the reasons why we differentiate.**

29. Show slide: Why Do We Differentiate?

Strategies for Managing a Differentiated Classroom

Carol Ann Tomlinson

1. Have a strong rationale for differentiation instruction based on student readiness, interest, and learning profile.

2. Begin differentiating at a pace that is comfortable for you.

3. Time differentiated activities to support student success.

4. Use an “anchor activity” to free you up to focus your attention on your students.

5. Create and deliver instructions carefully.

6. Assign students into groups or seating areas smoothly.

7. Have a “home base” for students.

8. Be sure students have a plan for getting help when you’re busy with another student or group.


10. Make a plan for students to turn in work.

11. Teach students to rearrange furniture.

12. Minimize “stray movement”.

13. Promote on-task behavior.

14. Have a plan for “quick finishers”.

15. Make a plan for “calling a halt”.

16. Give your students as much responsibility for their learning as possible.

17. Engage your students in talking about classroom procedures and group process.
31. Show slide: Motivation to Learn.

**Motivation to Learn**

Students cannot learn when they are unmotivated by things far too difficult or things far too easy. Students learn more enthusiastically when they are motivated by those things that connect to their interests.

Tomlinson, *The Differentiated Classroom*

32. Show slide: Efficiency of Learning.

**Efficiency of Learning**

Students learn more efficiently when they have a suitable background of experience. Students learn more efficiently when they can acquire information and express understanding through a preferred mode.

Tomlinson, *The Differentiated Classroom*
Slide: The Equalizer

33. Show slide: The Equalizer.

34. Present:

- Carol Ann Tomlinson has developed a tool to use in planning differentiated lessons. She calls this tool “The Equalizer.”

- The equalizer provides a visual guide to help teachers create tiered tasks.

- Teachers can adjust the difficulty of a task or a product along several continua.

- Tomlinson notes that “by matching task difficulty with learner readiness, a teacher can provide appropriate challenge for a given learner at a given time” (Differentiation in Practice, Grades 5-9, 235).
35. Here is an example of how one science teacher uses differentiation for students with different reading levels.

36. Have individuals read silently, then pair and share their thinking. Ask whole group to discuss.

- “For example, Mrs. Santos often assigns students in her science class to reading squads when they work with text materials. At this stage, group assignments usually are made so students of similar reading levels work together. She varies graphic organizers and learning log prompts according to the amount of structure and concreteness the various groups need to grasp essential understandings from the chapter.

- She also makes it possible for students to read aloud in their groups or to read silently. Then they complete organizers and prompts together. As students read, Mrs. Santos moves among groups. Sometimes she reads key passages to them, sometimes she asks them to read to her, but she always probes for deeper understanding and helps to clarify their thinking.

- Sometimes Mrs. Santos asks students to complete labs, watch videos, or work with supplementary materials before they read the chapter so they have a clear sense of guiding principles before they work with the text. Sometimes they read the text for a while, do a lab, and go back to the text. Sometimes labs and supplementary materials follow text exploration.

- Frequently, she will have two versions of a lab going simultaneously: one for students who need concrete experiences to understand essential principles and one for students who already grasp the important principles and can deal with them in complex and uncertain contexts. (Ibid)

37. Present:

- Let’s examine the other continua in order to make sure we understand how they can be used to adjust the difficulty of a task or product.

- Allow time for participants to discuss and reach consensus regarding the other continua before moving on.

*The Equalizer*  
- You can find this Equalizer on page 52.
The Equalizer

Concrete to abstract
(representations, ideas, applications, materials)

Simple to complex
(resources, research, issues, problems, skills, goals)

Basic to transformational
(information, ideas, materials, applications)

Single facets to multi-facets
(directions, problems, applications, solutions, approaches, disciplinary connections)

Smaller leaps to greater leaps
(application, insight, transfer)

More structured to more open
(solutions, decisions, approaches)

Less independence to greater independence
(planning, designing, monitoring)

Slow to faster
(pace of study, pace of thought)

Tomlinson, 1995
Guided Practice: Analyzing a Differentiated Task

38. Show slide: Examples of Differentiating in Science.

Examples of Differentiating in Science
- Anchors
- Sternburg’s Intelligences
- Cubes
- Interest-based Activities
- Centers
- RAFT
- Think Tac Toe
- Tiers
- Blind Sequencing
- Bingo
- Walking Into and Through a Picture
- Foldables

There are several samples of differentiating tasks and strategies to use in the Appendix beginning on page 88. Use them in redelivery according to the amount of time you have.

After we look at an example, let’s try some on our own.

This part of the training will be a make and take session.

39. Present:

Now it’s time to begin to apply what we’ve learned about differentiation. You will find a standard and elements along with a suggested task using multiple ways to differentiate.

Your job is to analyze these differentiated tasks to determine what and how the tasks have been differentiated.

- Is the content different? If so how?
- Are the processes different? If so how?
- Are the products different? If so how?
- Is the learning environment different? If so how?
- How might these differentiated tasks address the whys of differentiation: access, motivation, and efficiency?
- What continua on the Equalizer do you see differentiated?

A handout with these questions is included in the Appendix.
Examining Differentiating Tasks

1. Is the content different?
2. If so, how?

3. Are the processes different?
4. If so, how?

5. Are the products different?
6. If so, how?

7. Is the learning environment different?
8. If so, how?

9. How might these differentiated tasks address the whys of differentiation?
   - Access
   - Motivation
   - Efficiency
Differentiation

40. Present:

<table>
<thead>
<tr>
<th>Differentiated Instruction is...</th>
<th>Differentiated Instruction is not...</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Assessing students before a unit of instruction to determine what they already know</td>
<td>1. All students in the class completing the same work for a unit/chapter</td>
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<td>2. Adjustment of the core curriculum by content (below to above grade level), process (concrete to abstract), and product (simple to complex)</td>
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<td>3. Providing assignments tailored for students of different levels of achievement</td>
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<td>5. Activities that all students will be able to do</td>
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<td>6. Structuring class assignments so they require high levels of critical thinking and allow for a range of responses</td>
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<td>7. Students participating in respectful work</td>
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<td>8. Students and teachers collaborating in learning</td>
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</tr>
<tr>
<td>10. Differing the pace of instruction</td>
<td>10. Using capable students as tutors</td>
</tr>
<tr>
<td>11. A blend of whole class, group, and independent learning</td>
<td>11. Using individualized instruction</td>
</tr>
</tbody>
</table>

41. Say:

- Let’s look back at that True/False Quiz we did at the beginning of the day. Do you wish to change any answers or discuss any “Ah Ha” moments?
Show slide: Essential Answer #2.

Essential Answer #2
Let’s Discuss.

How do I know what to differentiate, how to differentiate, and why to differentiate in order to best meet the needs of the students in my classroom?
The Role of the Teacher in a Differentiated Classroom

Time

1 hour

Overview

This section will focus on the various roles and responsibilities of the teacher in a differentiated classroom. We will examine areas in which we may need to rethink traditional ways of doing in order to maximize every student’s opportunity to learn. We will look at a number of ways of differentiating that require low levels of preparation, as well as other means that require more preparation. Finally, we will develop individual action plans for moving toward differentiated classrooms.

Objectives

➢ Describe the roles of the teacher in a differentiated classroom.
➢ Set individual goals for differentiating instruction in each classroom.
➢ Utilize the Pyramid of Academic Interventions as a systemic and systematic response to identify struggling students who need additional support.

Activities

➢ Comparing and Contrasting Teachers in Traditional and Differentiated Classrooms
➢ Developing an Individual Action Plan for Differentiation
➢ Assignments for Day 6

Materials

➢ Chart paper and markers
Rethinking Our Roles

Slide: Essential Question 3


   Essential Question #3
   What is the role of the teacher in a differentiated classroom?

2. Say:
   ➢ Let’s review some “Rules of Thumb” for Differentiation.

   Differentiating Instruction: Rules of Thumb
   • Be clear on the key concepts and generalizations or principles that give meaning and structure to the topic, chapter, unit or lesson you are planning.
   • Lessons for all students should emphasize critical thinking.
   • Lessons for all students should be engaging.
   • In a differentiated classroom, there should be a balance between student-selected and teacher-assigned tasks and working arrangements.
# A Traditional Classroom Compared with a Differentiated One

<table>
<thead>
<tr>
<th>Traditional Classroom</th>
<th>Differentiated Classroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Student differences are masked or acted upon when problematic.</td>
<td>1. Student differences are studied as a basis for planning.</td>
</tr>
<tr>
<td>2. Assessment is most common at the end of learning to see “who got it.”</td>
<td>2. Assessment is ongoing and diagnostic to understand how to make instruction more responsive to learner need.</td>
</tr>
<tr>
<td>3. A relatively narrow sense of intelligence prevails.</td>
<td>3. Focus on multiple forms of intelligence is evident.</td>
</tr>
<tr>
<td>4. A single definition of excellence exists.</td>
<td>4. Excellence is defined by individual growth from a starting point.</td>
</tr>
<tr>
<td>5. Student interest is infrequently tapped.</td>
<td>5. Students are frequently guided in making interest-based learning choices.</td>
</tr>
<tr>
<td>6. Relatively few learning profile options are taken into account.</td>
<td>6. Many learning profile options are provided.</td>
</tr>
<tr>
<td>7. Whole class instruction dominates.</td>
<td>7. Many instructional arrangements are used.</td>
</tr>
<tr>
<td>8. Coverage of texts and/or curriculum guides drives instruction.</td>
<td>8. Student readiness, interest, and learning profile shape instruction.</td>
</tr>
<tr>
<td>9. Mastery of facts and skills out-of-context is the focus of learning.</td>
<td>9. Use of essential skills to make sense of key concepts and principles is the focus of learning.</td>
</tr>
<tr>
<td>10. Single-option assignments are the norm.</td>
<td>10. Multi-option assignments are frequently used.</td>
</tr>
<tr>
<td>11. Time is relatively inflexible.</td>
<td>11. Time is used flexibly in accordance with student need.</td>
</tr>
<tr>
<td>12. A single text prevails.</td>
<td>12. Multiple materials are provided.</td>
</tr>
<tr>
<td>13. Single interpretations of ideas and events may be sought.</td>
<td>13. Multiple perspectives on ideas and events are routinely sought.</td>
</tr>
</tbody>
</table>
14. The teacher directs student behavior.

14. The teacher facilitates students’ skills at becoming more self-reliant learners.

15. The teacher solves problems.

15. Students help one another and the teacher solve problems.

16. A single form of assessment is often used.

16. Students are assessed in multiple ways.

Carol Tomlinson, 1998.
4. Show slide: Traditional vs. Differentiated.

Traditional vs. Differentiated

- Turn to page 59-60.
- In your table groups, read through the characteristics of a traditional classroom and compose a brief description of the teacher you visualize in that classroom.
- Next, read through the characteristics of the differentiated classroom and compose a brief description of the teacher you visualize in that classroom.
- You have 7-10 minutes for this activity.

5. Show slide: Traditional vs. Differentiated.

Traditional vs. Differentiated

How are the teachers you visualized in the two classrooms similar?

How are the teachers you visualized in the two classrooms different?

What conclusions might we draw from these similarities and differences?
6. Allow time for participant's to complete the activity, then ask:

- **How are the teachers you visualized in the two classrooms similar?**
  [Allow time for participants to respond.]

- **How are the teachers you visualized in the two classrooms different?**
  [Allow time for participants to respond.]

- **What conclusions might we draw from these similarities and differences?**
  - Responses will differ, but expect such things as:
    - Teachers will have to be able to adapt.
    - Teachers will have to be much better prepared.
    - Teachers will have to be more flexible.
    - The day of the teacher being front and center in the classroom are over.
    - Teachers can no longer assume one size fits all.

Slide: *The Role of the Teacher in a Differentiated Classroom*

7. Show slide: The Role of the Teacher in a Differentiated Classroom.

8. Present:

- **Tomlinson lists 7 teacher roles in a differentiated classroom:**
  - Preparing students for differentiation
  - Balancing whole-class and small-group instruction
  - Communicating with parents about differentiation
  - Teaching for individual growth
  - Coaching for individual growth
  - Helping groups work
  - Grading for excellence and equity
  - And charting individual growth
➢ She also specifies that teachers must provide clear directions and must be clear about learning goals.

➢ As we move to the last activity of the day—setting personal goals for differentiation—keep Tomlinson’s list in mind. Before we get to the personal goals, let’s look at the Pyramid of Interventions to review what we can do when differentiated strategies are not working for particular students.

Pyramid of Interventions

Slides:

Pyramid of Interventions

1. Show Slide: Georgia Student Achievement Pyramid of Interventions.

2. Present: The Pyramid of Interventions will help you identify strategies to help struggling students overcome obstacles.

3. Slide: The Pyramid of Interventions – Say: The Pyramid focuses on whether or not students are learning, how we know they are learning, and what we will do if they are not learning.
4. Slide: Tier 1 – Say: **Now let’s examine Tier 1: Standards Based Classroom Learning.**

   Tier 1: Standards Based Classroom Learning
   - Should be happening for ALL students in ALL classrooms
   - Basic implementation of GPS through a standards based approach using best practices
   - For balance, this means conceptual teaching and learning, varied assessments, and measuring understanding through performance tasks.

5. Slide: Tier 2 – Say: **Tier 2 focuses on Needs Based Learning.**

6. Slide: Tier 3 – Say: **Tier 3 brings in the Student Support Team.**

   Tier 3: Student Support Team
   - Driven Instruction
   - This is where students begin being referred to specialized teams (SET or GIFTED Eligibility).
   - More individualized instruction
   - May have completely different assessments
   - Different from Tier 2 in terms of specificity and individualization
   - Typically includes a system-level plan

7. Slide: Tier 4 – Say: **Tier 4 examines specialized instruction for populations of students in need of additional support.**

   Tier 4: Specially Designed Instruction
   - Should be the least number of students
   - If tiers 1-3 are used effectively, fewer students will require this level
   - Gifted Ed or Special Ed self-contained classes are an example
   - Tier 4 can take place in the general ed classroom as well.
   - Takes tier 2 to a much larger level
   - DOES NOT MEAN CHANGING CURRICULUM
   - All students are expected to meet standards
Setting Personal Goals for Differentiating

1. Present:
   - Carol Ann Tomlinson notes that differentiated classrooms don’t magically appear overnight. She contends that it is perfectly acceptable to begin slowly AS LONG AS WE DO BEGIN!
   
   - To help teachers begin, Tomlinson has developed a list of what she calls “low-prep” and “high-prep” differentiation possibilities.

   **Low-Prep and High-Prep Differentiation**
   - Tomlinson’s list is reprinted on page 66. Please turn to that page now.

2. Present:
   - Using Tomlinson’s chart and the Action Plan form, begin working on your individual action plan.

   Trainer’s Note: The amount of time allotted here will depend on the time remaining. You need to allow time to sum up and time to go over the homework for next time.
Low-Prep and High Prep Differentiation

Low-Prep Differentiation
Choice of books
Homework options
Use of reading buddies
Varied journal prompts
Orbitals
Varied pacing with anchor options
Student-teacher goal setting
Work alone/work together
Whole-to-part and part-to-whole explanations
Flexible seating
Varied computer programs
Design-A-Day
Varied supplementary materials
Options for varied modes of expression
Varying scaffolding on same organizer
Let's Make a Deal projects
Computer mentors
Think-Pair-Share by readiness, interest, learning profile
Use of collaboration, independence, and cooperation
Open-ended activities
Mini-workshops to reteach or extend skills
Jigsaw
Negotiated Criteria
Explorations by interest
Games to practice mastery of information and skill
Multiple levels of questions

High-Prep Differentiation
Tiered activities and labs
Tiered products
Independent studies
Multiple texts
Alternative assessments
Learning contracts
4-MAT
Multiple intelligence options
Compacting
Spelling by readiness
Entry Points
Varying organizers
Lectures coupled with graphic organizers
Interest groups
Tiered centers
Interest centers
Personal agendas
Literature Circles
Stations
Complex instruction
Group investigation
Tape-recorded materials
Teams, Games, and Tournaments
Think-Tac-Toe
Simulations
Problem-Based Learning
Graduated rubrics
Flexible reading formats
Student-centered writing Formats

Tomlinson, How to Differentiate in Mixed-Ability Classrooms, 34.
**Action Plan**

**Directions:** Complete the following chart to create your individual plan for building a differentiated classroom. Consider the following:
- What am I already doing to differentiate?
- How can I assess and use student readiness, interests, and learning profiles to maximize learning growth for every student?
- How can I differentiate content, process, products, or the learning environment?
- How can I employ Tomlinson’s Equalizer to create tiered assignments, activities, tasks, and products?
- What low-prep differentiations do I want to start with?
- What higher-prep differentiations do I want to work toward?

<table>
<thead>
<tr>
<th>Differentiation:</th>
<th>What</th>
<th>How</th>
<th>Why</th>
<th>By When</th>
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</table>
3. Present:

- We have just skimmed the surface of differentiation today. Please dive deeper into this topic via the resources provided to each system and RESA by the DOE as well as the other resources listed in your Day 5 materials.

4. Present:

<table>
<thead>
<tr>
<th>Day 6 Assignment</th>
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</thead>
<tbody>
<tr>
<td>• Redeliver Day 5.</td>
</tr>
<tr>
<td>• Bring 4 copies of an example of student work with permission forms.</td>
</tr>
<tr>
<td>– Do not bring handouts from a copyrighted source.</td>
</tr>
<tr>
<td>– Make sure products are easy to carry. (Photos of posters, shoe boxes, etc. are easier to transport than the original.)</td>
</tr>
<tr>
<td>• Reflect on your ability to differentiate…Try a new strategy.</td>
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</tbody>
</table>

- Day 6 of training will focus on Examining Student Work and Teacher Commentary.

- You’ll find assignments for Day 6 also listed in the Appendix.

- For Day 6, please bring a student work sample to training. This sample should include 4 copies of the student work, 1 copy of the assignment that generated the work including the standard(s) being assessed via this student work, and 1 copy of each of the two permission forms (teacher permission form and student/parent permission form). These forms are printed in the Appendix on pages 86-87.
5. Present:

- As you work to implement the GPS standards this first year, we also like for you record your experiences in a notebook, journal, or other calendar format.
  - Note any tasks, strategies, assessments, etc., that worked especially well;
  - critical comments about particular standards (e.g., gaps that need filling, elements that are problematic, terms that need defining, etc.);
  - Thoughts or ideas about the second year of your implementation; etc.

- Please use this record to accurately fill out the survey giving feedback on the Georgia Performance Standards.

- The State Board of Education will be reviewing the GPS each year, and your comments will provide information for this review, as well as topics for discussion in training. Don’t worry; we don’t plan to collect your journals . . . just your suggestions!

I hope in your classroom that…

- Discovery is a given.
- Doing is a way of life.
- All students learn to do better than what they perceive to be their best.
- School is the place to be.
- Learning is the thing to do!
Glossary

**Ability Grouping**—Grouping students according to similar readiness levels or learning profiles.

**Alternate Assignment**—Assignments given to particular students or groups of students in lieu of the assignment given to the other members of the class. These assignments are designed to capitalize on student readiness levels, interests, or learning profiles.

**Anchor Activity**—A task or activity that a student automatically moves to upon completion of other assigned work.

**Cluster Grouping**—Flexible grouping and regrouping of students within a classroom to accommodate different instructional needs at different times and/or for different subject or content, different readiness levels, interests, or learning profiles.

**Compacting**—Modifying or streamlining content, process, or product in order to eliminate repetition of previously mastered material.

**Contracting**—Students contract for grades and/or choose from a variety of available project/product options.

**Cooperative Learning**—Students work with other students in groups to achieve a specific goal or purpose. Each group member has a particular, predetermined role in helping the group reach its goal.

**Exit Cards**—Teacher distributes index cards to students a few minutes before the end of class. Students respond quickly to a specific prompt such as “What’s the most important thing you learned today?” Exit cards provide a quick and easy method of assessing understanding.

**Flexible Grouping**—Purposeful reordering of students into a variety of different groups in a short amount of time in order to ensure that all students work with a number of different students on a regular basis. Criteria for grouping—readiness, interest, learning profile, activity or task, content—will vary regularly as well.

**Interest Centers/Groups**—Interest centers (often used with younger learners) and groups (often used with older learners) allow students choice in an area or areas of study.

**Independent Study Projects**—A student or small group of students pursues an area of interest related to a specific topic, curricular area, or individual area of interest.

**Literature Circles**—Small groups of students read and/or study different books with varying degrees of difficulty and/or focusing on a variety of topics of interest.
**Product/ Project Options**—Students choose from a variety of options the way that they will provide evidence of learning. These options allow students to utilize their individual strengths and interests.

**Pyramid Activities**—Any activity that begins with students working individually, progresses through pairs, groups of four, etc., until ending with the whole-class group. This is a good way to review material or to practice test-taking strategies. Students may begin by individually recording what they know and then add to or change their responses as they collaborate with other students.

**Questioning Strategies**—Different types of questions are employed before, during, and after an activity, a lesson, or a unit of instruction to engage and challenge students to demonstrate their understanding from the knowledge level to the evaluation level. These questions allow students to clarify their thinking, increase their knowledge, and deepen their understanding.

**RAFT Activities**—Students select a Role, Audience, Format, and Topic for a particular task. The task vary but may include writing, oral presentations, skits, review activities, etc.

**Reader’s Workshop**—This student-centered, instructional model for “real reading” uses authentic literature and allows students to self-select books. Students read at their own pace, reflect on what they read, and talk about their reading with others.

**Reading Buddies**—One name for peer reading partners, pairs of students who assist each other in reading for comprehension. They may take turns: one reads aloud and the other summarizing OR one reads aloud while the other formulates questions about that reading, etc.

**Scaffolding**—This refers to any support system that enables students to succeed with tasks they find genuinely challenging.

**Subject/ Content Acceleration**—A student or group of students moves to a higher level of at an earlier time or age than the other students.

**Thinking Maps**—Visual representations of ideas that allow students to “unpack” their thinking and organize ideas in a visual format rather than solely in sentences or paragraphs.

**Tiered Assignments**—Teachers adjust the degree of difficulty for a particular assignment or task in order to meet the needs of students with varying levels of readiness, varying interests, and/or varying learner profiles.

**Writer’s Workshop**—This student-centered, instructional model for “real writing” uses authentic assignments that allow students to participate in differentiated activities while participating in all stages of the writing process. Students spend time on self-selected writing activities.
Appendix

The following documents are:
- Duplicates of the Underlying Assumptions handout and True/False Quiz found in the Facilitator’s Guide.
- Accommodations for ELL
- Differentiation Menu
- Student-Created Products
- Assignment for Day 6
- Permission forms
- Strategies for Differentiation
- Product Ideas for Reviewing and Reporting
Some Underlying Assumptions of Differentiated Instruction

Read each assumption and assess your own "way of thinking about teaching" by marking the star if this assumption is implicit in your practice throughout the unit, the smiley face if you’ve taken this assumption into consideration in some way for this unit and the question mark if you need to think about your practice in terms of this assumption.

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<tr>
<th>The Underlying Assumption</th>
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<tbody>
<tr>
<td>1. I have planned this unit to accommodate multiple and varied learning needs (social as well as cognitive), rather than attempting to accommodate them after student frustration or failure.</td>
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<td>2. I work to create and maintain a classroom community where students feel safe and valued as they are; at the same time I support each student in order to maximizing his or her potential.</td>
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<td>3. I interact with each student with positive regard and positive expectations.</td>
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<td>4. I recognize every student has both talents and areas of need, and I emphasize the student’s strengths rather than accentuating labels, deficits, or differences. At the same time, I do not call attention to the differentiation, but rather I help students appreciate varied ways in which all of them can find personal success with important goals.</td>
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<td>5. I use multiple and alternative forms of assessment at all stages of student learning in this unit in order to uncover and address a full range of learning needs and strengths.</td>
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<td>6. I gather and employ knowledge and information about my students in order to identify and address their varied readiness levels, interests, and learning profiles during this unit.</td>
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<td>7. I find ways to provide access for all students to meaningful and powerful ideas, information, and skills in this unit rather than reducing the standards, watering down the curriculum, or assigning busy work.</td>
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<td>8. I use multiple methods in this unit to engage students in active learning. Although I may employ whole-class instruction, I know that differentiation does not take place during whole class instruction.</td>
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<td>9. I work to develop classroom management skills that allow 1) multiple tasks to proceed smoothly in the classroom, 2) students to take increasing responsibility for their learning, and 3) the time to monitor student activity and coach for student growth and quality work.</td>
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<td>10. I accept responsibility for successful teaching and learning of each student in the class while working collaboratively with specialists to ensure success of individuals and the class as a whole.</td>
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What Does Differentiation Look Like: A True/False Quiz

Directions: Mark the item T if it is TRUE for a differentiated classroom or F if it is FALSE for a differentiated classroom. After you have responded individually, compare your answers to the others in your table group. When you disagree, discuss your various points and attempt to reach consensus.

_____ 1. Allowing all students in the class completing the same work for a unit/chapter
_____ 2. Assessing students before a unit of instruction to determine what they already know
_____ 3. Adjusting the core curriculum by content (below to above grade level)
_____ 4. Limiting how and what is taught by teaching to the average student
_____ 5. Providing assignments tailored for students of different levels of achievement
_____ 6. Having high expectations for ALL students
_____ 7. Providing educational experiences which extend, replace, or supplement standard curriculum
_____ 8. Assigning more work at the same level to high achieving students
_____ 9. Focusing on student weaknesses and ignoring student strengths
_____ 10. Using activities that all students will be able to do
_____ 11. Structuring class assignments so they require high levels of critical thinking and allow for a range of responses
_____ 12. Giving the same kind of problems or questions and expecting more
_____ 13. Creating more work such as extra credit work, to do when assignment is completed
_____ 14. Having students participating in respectful work
_____ 15. Putting students in situations where they don't know the answer—often
_____ 16. Ensuring that students and teachers are collaborating in learning
_____ 17. Providing free-time challenge activities
_____ 18. Differing the pace of instruction
_____ 19. Using capable students as tutors
_____ 20. Using higher standards when grading
_____ 21. Blending of whole class, group, and independent learning
_____ 22. Using individualized instruction
Examining Differentiating Tasks

10. Is the content different?
11. If so, how?

12. Are the processes different?
13. If so, how?

14. Are the products different?
15. If so, how?

16. Is the learning environment different?
17. If so, how?

18. How might these differentiated tasks address the whys of differentiation?
   - Access
   - Motivation
   - Efficiency
Instructional Accommodations for ELLs

Accommodations for ELLS are appropriate and effective only to the level that these match the English language learners proficiency in English, prior academic knowledge and cultural learning patterns.

- give tests orally rather than in written form
- give more time to complete assignments
- allow same-language buddy to assist
- require fewer responses to demonstrate mastery
- permit incomplete sentences in responses
- permit ungrammatically correct sentences in responses
- provide lower level text on content material
- provide video on content material
- provide text on tape
- highlight key points
- reduce number of key points that student is responsible for knowing
- give advanced organizers/study guides
- permit open book tests
- use graphic organizers
- give written instructions as well as oral
- make a written record of instruction and display it on chart paper
- take time to develop students’ prior knowledge of new topics
- increase % of student talk about topic (more discussions)
- break students into small groups for discussion
- plan for group work
- use demonstrations when possible
- present model of work done well at the beginning of the assignment
- use hands-on activities when possible
- give sufficient wait time after asking questions
- adapt homework requirements to reflect stage of language development
- use performance based assessment when possible
- adapt project/assignment requirements so students can participate
- provide learning centers (language masters, books on tape, magazines for classifying and developing picture dictionaries, language based games)
- provide computer time (phonics software, Kidspiration graphic organizer software, internet)
- seat student near teacher or positive role models
- relate content to real life
- present tasks from easy to hard
- reduce details needed to learn main concepts
- use simpler vocabulary or paraphrase
- provide additional examples
- pair verbal directions with visual clues
- look at students when talking
- use audio-visual aids frequently
- provide student with outline of lesson notes
- use peer assisted note taking
- use role-playing
- use games
- provide self-checking materials
- use different colors for worksheets
- use enlarged type on worksheets
- reduce the length or amount of work
- mark only correct answers
- do NOT write the name of a Korean student in red...it means death
- give short quizzes/avoid long tests
- allow the use of a dictionary during tests
- allow student to take tests until passes/emphasize mastery
Georgia Department of Education, GPS Differentiation Menu

For students who have difficulty with writing/composing written material:
- cooperative learning groups
- word processing application
- dictation to a scribe or onto a tape
- demonstrate/role play
- oral responses, presentation, and assessments
- multi-media presentation
- graphic organizer
- extended time on timed tasks
- word prediction software
- Co-Writer, Write Out Loud, Dragon Naturally Speaking, or other software
- voice output computer programs
- spell check/grammar check (not allowed on standardized tests)
- task item rubrics
- teacher prepared format
- bread work into manageable parts
- individual or small group test taking
- story starters
- sentence starters
- outlines
- tape recorded essays and oral presentations
- voice activated software
- portable word processor
- prewriting conference/prewriting activities
- illustrations
- K-W-L chart
- provide sample work
- debates
- proofreading checklist
- word bank/word wall
- matrix usage
- note taking assistance
- provide student with key words on essay tests
- abbreviate assignments
- adapted writing tools or other assistive technology, as appropriate

For students who have difficulty with reading/accessing written material:
- cooperative learning groups/group discussion
- extended time on timed tasks
- voice output computer programs
- talking dictionaries
- break work into manageable parts/presentation of small chunks of a passage
- individual or small group test taking
- testing with reader or scanable text readers
- books on tape/listening to recording/viewing film version of story
- text read to the student by adult or peer
- reading guides (highlighted text, summaries, etc.)
- Language Master
- tracking light or other tracking device
- colored overlays
- computer generated books
- answer “yes/no” questions for comprehension checks
- choral reading
- pre-reading summary
- electronic text (text reader)
- oral (or audio) presentation to student
- teacher introduction of vocabulary words
- paired reading
- picture cues
- illustrations to show comprehension
- CoWriter, Write Out Loud, other software
- K-W-L chart
- previewing topics to introduce vocabulary and key concepts
- listening guide to facilitate note taking
- links to prior knowledge/personal experience
- debates
- word bank/word wall
- other assistive technology, as appropriate

For students who have difficulty speaking:
- sign language interpreter/transliterator
- augmentative communication devices
- communication boards
- cooperative learning groups
- usage of other preferred means of communication
- demonstrate/play act tasks
- picture symbol program
- object symbols
- voice output computer programs
- break work into manageable parts
- provide time to respond
- ask “yes/no” questions
- indicating correct answer by pointing
- assign written rather than oral reports
- avoid situations that create pressure
- other assistive technology, as appropriate
For students who have difficulty listening:
- cooperative learning groups
- visual presentation using computer software, such as PowerPoint or Inspiration
- break work into manageable parts
- repeat, rephrase, simplify statements and instructions
- provide time to respond
- use of literal, concrete speech
- visual aids
- preferential seating
- note taking assistance (copy or notes/note-taking guides/note taker)
- have student repeat instructions
- reinforce oral instructions with written instructions
- assistive technology, as appropriate

For students who have difficulty with mobility:
- cooperative learning groups
- switch use
- touch screen
- modified keyboards
- extended time on timed tasks (or waive timed tasks)
- modified handwriting and/or grid paper
- weighted pencils and other motoric devices
- slant board or wedge
- magnets, tape, or other paper stabilizers
- stabilized materials
- break work into manageable parts
- individual or small group test taking
- provide time to respond
- page turner
- flexible schedule/scheduled rest breaks
- provide assistance in manipulating classroom and personal materials
- note taking assistance
- adaptive or special furniture
- dictation to a scribe or onto a tape
- other assistive technology, as appropriate

For students who have difficulty attending to task:
- cooperative learning groups with specific tasks assigned
- rubrics
- graphic organizers
- extended time on timed tasks
- break work into manageable parts
- individual or small group test taking
- task analysis
- task analysis graphically displayed
• proximity control
• visual, verbal, and tactile cues
• gain student’s attention before delivery of information
• flexible schedule/scheduled rest breaks
• preferential seating
• note taking assistance
• provide study guides for tests
• have student repeat instructions
• regular notebook/agenda checks
• give abbreviated assignments
• set time allotments for tasks
• organizer/daily planner/homework notebook/folders
• fewer items on each page
• allow students to mark answers in workbooks and test booklets
• select optimal time of day for assessments
• provide study carrel or other quiet work space with minimal distractions
• assistive technology, as appropriate

For students who have difficulty with organizations/study skills:
• cooperative learning groups
• graphic organizers
• extended time on timed tasks
• break work into manageable parts
• individual or small group test taking
• task analysis
• task analysis graphically displayed
• organizer/daily planner/homework notebook/folders
• provide time to respond
• preferential seating
• provide sample work
• task item rubrics
• provide study guides for tests
• have student repeat instructions
• regular notebook/agenda checks
• set time allotments for task
• fewer items on each page
• provide study carrel or other quiet work space with minimal distractions
• provide books to remain at home
• establish and post daily routines
• allow students to mark answers in workbooks and test booklets
• assistive technology, as appropriate

For students who are Deaf/Hard of Hearing:
• sign language interpreter/transliterator
• amplification equipment
• sound-treated classrooms/special acoustics
• visual presentation using computer software, such as PowerPoint or Inspiration
• highlighted vocabulary
• closed captioning for viewing movies and other video presentations
• cooperative learning groups
• demonstrate/play act tasks
• voice output computer programs
• individual or small group test taking
• give short, specific verbal instructions
• story webs
• story starters
• Write Out Loud, CoWriter, or other software
• peer scribe
• note taking assistance
• provision of class notes with critical information, test questions, and highlighted vocabulary
• preferential seating
• refrain from speaking with back turned to students
• provide a work space with minimal noise
• other communication aids (assistive technology), as appropriate

For students who are Visually Impaired:
• Braille text/Braille writer
• enlarged print
• print with optical devices
• tactile symbols
• calendar system
• auditory and electronic formats
• dark or raised line paper
• cooperative learning groups
• slant board
• individual or small group test taking
• low vision devices/magnifying equipment
• screen readers/text scanners
• audio-taped directions and text (Talking Books for the Blind)
• word processing program with voice output
• electronic Braille note takers
• positioning in class away from glare
• black print handouts
• primary typewriter
• preferential seating
• usage of grid paper
• special or adapted lighting
• other alternate formats, communication aids, or assistive technology, as appropriate
### Student-Created Products

**Verbal**
- anecdote
- audio recording
- ballad
- book report
- campaign speech
- characterization
- choral reading
- cinquain
- comedy act
- comparison
- conference
- couplet
- debate
- description
- dialog
- discussion
- documentary
- dramatization
- explanation
- fairy tale/tall tale
- free verse
- interview
- jingle
- joke
- lecture
- lesson
- limerick
- mock interview
- monologue
- myth
- newscast
- nursery rhyme
- oral report
- panel discussion
- quatrain
- radio show
- radio commercial
- rap
- recorded dialogue
- rhyme
- riddle
- wire sculpture

**Visual**
- riddle
- role-play
- song
- speech
- story telling
- survey

**Film**
- filmstrip
- flag
- flashlight
- flip chart
- flowchart
- game
- graphic
- greeting card
- hieroglyphic
- icon
- id chart
- illustration
- layout
- map
- mask
- mobile
- mosaic
- movie
- newscast
- outline
- painting
- pattern
- pennant
- photo essay
- photograph
- picture dictionary
- picture story
- pie chart
- playing card
- print
- puzzle
- scatter graph
- scenario
- scrap book
- scroll
- sign
- silk screen
- slide show
- stencil
- TV commercial
- timeline
- letter to editor
- limerick

**Kinesthetic**
- transparency
- travel ad
- travel log
- tree chart
- video tape
- wall hanging
- weather map
- weaving
- web
- web page
- window shade
- word game
- word search

**Improvisation**
- apparatus
- aquarium
- artifacts
- card game
- cardboard relief
- ceramics
- charade
- circuit boards
- clothing
- collage
- collection
- dance
- demonstration
- discovery center
- display
- dramatization
- equipment
- etching
- experiment
- fair
- food
- furniture
- gadget
- game
- hat
- imaginary play
- patent
- pen pal
- paper mache
- puppet
- prototype
- puzzle
- quilt
- relief rubbing
- role play
- sand casting
- scavenger hunt
- service
- sewing cards
- shadow box
- simulation
- skit
- soap sculpture
- stage set
- stitchery
- terrarium
- tie-dye
- tool
- toy
- uniform
- vehicle
- weaving
- satire
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<tr>
<td>autobiography</td>
<td>fairy tale/tall tale</td>
<td>lyrics</td>
<td>play</td>
<td>short story</td>
</tr>
<tr>
<td>book report</td>
<td>field manual</td>
<td>magazine</td>
<td>poem</td>
<td>skit</td>
</tr>
<tr>
<td>booklet</td>
<td>free verse</td>
<td>magazine article</td>
<td>prediction</td>
<td>slogan</td>
</tr>
<tr>
<td>brochure</td>
<td>friendly letter</td>
<td>manual</td>
<td>profile</td>
<td>speech</td>
</tr>
<tr>
<td>business letter</td>
<td>glossary</td>
<td>metaphor</td>
<td>puppet show</td>
<td>story</td>
</tr>
<tr>
<td>characterization</td>
<td>guidebook</td>
<td>myth</td>
<td>questionaire</td>
<td>story problems</td>
</tr>
<tr>
<td>classified ad</td>
<td>handbook</td>
<td>new story ending</td>
<td>questions</td>
<td>survey</td>
</tr>
<tr>
<td>comic book</td>
<td>handout</td>
<td>newsletter</td>
<td>radio script</td>
<td>telegram</td>
</tr>
<tr>
<td>comparison</td>
<td>interview script</td>
<td>newspaper</td>
<td>rating scale</td>
<td>TV script</td>
</tr>
<tr>
<td>computer prog.</td>
<td>job description</td>
<td>newspaper article</td>
<td>rationale</td>
<td>term paper</td>
</tr>
<tr>
<td>couplet</td>
<td>joke book</td>
<td>notes</td>
<td>recipe</td>
<td>test</td>
</tr>
<tr>
<td>creative writing</td>
<td>jot list</td>
<td>novel</td>
<td>reference</td>
<td>travel log</td>
</tr>
<tr>
<td>critique</td>
<td>journal article</td>
<td>oath</td>
<td>report</td>
<td>vocabulary list</td>
</tr>
<tr>
<td>database</td>
<td>label</td>
<td>outline</td>
<td>research paper</td>
<td>yearbook</td>
</tr>
<tr>
<td>description</td>
<td>law</td>
<td>pamphlet</td>
<td>review</td>
<td></td>
</tr>
<tr>
<td></td>
<td>lesson plan</td>
<td>parody</td>
<td>rewritten ending</td>
<td></td>
</tr>
</tbody>
</table>


**Day 6 Assignment**

**For Day 6 for all grade levels and all content areas:**

Each participant should bring a student work sample to Day 6 of training. This sample should include 4 copies of the student work, 1 copy of the assignment that generated the work including the standard(s) being assessed via this student work, and 1 copy of each of the two permission forms (teacher permission form and student/parent permission form). These forms are in the Facilitator’s Guide for Day 6 of the training.

**For Day 6 for all grade levels and all content areas:**

As you work to implement the GPS standards this first year, please record your experiences in a notebook, journal, or other calendar format. Note any tasks, strategies, assessments, etc., that worked especially well; critical comments about particular standards (e.g., gaps that need filling, elements that are problematic, terms that need defining, etc.); suggestions for teachers/instructional leaders in Phase II who will be implementing the following year; thoughts or ideas about the second year of your implementation; etc. Please use this record to provide feedback on the Georgia Performance Standards. The State Board of Education will be reviewing the GPS each year, and your comments will provide information for this review, as well as topics for discussion in training.
CONSENT AND ASSIGNMENT

This Consent and Assignment (the “Assignment”) is effective when signed by the undersigned Georgia educator (“Educator”) and is between Educator and the Georgia Department of Education (the “GDOE”). For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree:

1. GDOE gratefully acknowledges the contribution Educator is hereby making to GDOE of the original work product (the “Work Product”) created, developed, worked on or revised by Educator in connection with GDOE’s Georgia Performance Standards Project (the “Project”). So that GDOE may fully use the Work Product in any manner it sees fit, including making copies, modifications and derivative works, Educator hereby fully and unconditionally transfers, assigns and conveys to GDOE all of Educator’s copyright, ownership interests and other intellectual property rights in the Work Product (collectively, the “Intellectual Property Rights”). Educator further agrees that GDOE may publicly recognize and acknowledge Educator’s contribution to, and involvement in, the Project.

2. This Assignment is governed by Georgia law, can only be amended if both parties do so in writing, is assignable solely by GDOE and supersedes any contrary oral or written agreement or understanding. Educator grants to GDOE the power and authority to execute any documentation deemed necessary by GDOE to register or protect the Work Product or Intellectual Property Rights therein or complete the full transfer of the Work Product and Intellectual Property Rights to GDOE which is the purpose of this Assignment.

“Educator”

Signature:  
________________________________________

Print Name:  
________________________________________

“GDOE”

Georgia Department of Education

By:  
________________________________________

Title:  
________________________________________

Date:  
________________________________________
CONSENT AND ASSIGNMENT

This Consent and Assignment (the “Assignment”) is effective when signed by the undersigned legal guardian (“Guardian”) on behalf of the Guardian and minor Georgia student named below (“Student”), and is among Guardian, Student and the Georgia Department of Education (the “GDOE”). For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree:

1. GDOE gratefully acknowledges the contribution Student and Guardian are hereby making to GDOE of the original work product (the “Work Product”) created, developed, worked on or revised by Student. So that GDOE may fully use the Work Product in any manner it sees fit in connection with GDOE’s Georgia Performance Standards Project (the “Project”), including making copies, modifications and derivative works, Guardian on behalf of Guardian and Student (and their heirs and successors) hereby fully and unconditionally transfer, assign and convey to GDOE all of Student’s and Guardian’s copyright, ownership interests and other intellectual property rights in the Work Product (collectively, the “Intellectual Property Rights”). Guardian further agrees that GDOE may publicly recognize and acknowledge Student’s contribution to, and involvement in, the Project.

2. This Assignment is governed by Georgia law, can only be amended if both parties do so in writing, is assignable solely by GDOE and supersedes any contrary oral or written agreement or understanding. Student grants to GDOE the power and authority to execute any documentation deemed necessary by GDOE to register or protect the Work Product or Intellectual Property Rights therein or complete the full transfer of the Work Product and Intellectual Property Rights to GDOE which is the purpose of this Assignment.

“Guardian”
Signature: ______________________________
Print Guardian’s Name: ____________________
Relationship to Minor: _____________________
Print Minor’s Name: _______________________

“GDOE”
Georgia Department of Education
By: _________________________________
Title: _________________________________
Date: _________________________________
Sternburg’s Triachic Theory of Intelligence

Triachic teaching is a strategy that you can use to differentiate according to Sternberg’s theory of “successful intelligence.”

<table>
<thead>
<tr>
<th>Analytical</th>
<th>Practical</th>
<th>Creative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyze characters when reading or listening to a story</td>
<td>Take things apart and fix them</td>
<td>Design new things</td>
</tr>
<tr>
<td>Compare and contrast points of view</td>
<td>Learn through hands-on activities</td>
<td>Come up with ideas</td>
</tr>
<tr>
<td>Criticize my own and others’ work</td>
<td>Make and maintain friends</td>
<td>Use my imagination</td>
</tr>
<tr>
<td>Think clearly and analytically</td>
<td>Understand and respect others</td>
<td>Play make-believe and pretend games</td>
</tr>
<tr>
<td>Evaluate my and others’ point of view</td>
<td>Put into practice things I learn</td>
<td>Think of alternative solutions</td>
</tr>
<tr>
<td>Appeal to logic</td>
<td>Resolve conflicts</td>
<td>Notice things people usually tend to ignore</td>
</tr>
<tr>
<td>Judge behavior</td>
<td>Explain difficult problems to others</td>
<td>Think in pictures and images</td>
</tr>
<tr>
<td>Love logical problems</td>
<td>Convince someone to do something</td>
<td>Invent (new recipes, words, games)</td>
</tr>
<tr>
<td>Make inferences and derive conclusions</td>
<td>Learn by interacting with others</td>
<td>Suppose that things were different</td>
</tr>
<tr>
<td>Sort and classify</td>
<td>Apply my knowledge</td>
<td>Think about what would have happened if certain aspects of the world were different</td>
</tr>
<tr>
<td>Think about things</td>
<td>Work and be with others</td>
<td>Compose new songs and melodies</td>
</tr>
<tr>
<td>Adapt to new situations</td>
<td>Act and role playing</td>
<td></td>
</tr>
</tbody>
</table>

Assignments for Analytical Thinkers

- Show the parts of _____ and how they work.
- Explain why _____ works the way it does.
- Diagram how _____ affects _____.
- Identify the key parts of _____.
- Present a step-by-step approach to ____.

Assignments for Practical Thinkers

- Demonstrate how someone uses ____ in their life or work
- Show how we could apply ____ to solve this real life problem: ____
- Based on your own experience, explain how ____ can be used
- Here’s a problem at school ______
- Using your knowledge of _____, develop a plan to address the problem.
Assignments for Creative Thinkers
- Find a new way to show ______
- Use unusual materials to explain ______
- Use humor to show ______
- Explain a new and better way to ______
- Make connections between _____ and _____ to help us understand _____
- Become a _____ and use your “new” perspective to help us think about _____

Tips for Teaching Triarchically
- Some of the time, teach analytically, helping students learn to analyze, evaluate, compare and contrast, critique and judge.
- Some of the time, teach practically, helping students learn to apply, use, utilize, contextualize, implement, and put into practice.
- Some of the time, teach creatively, helping students learn to create, invent, imagine, discover, explore and suppose.
- Much of the time, enable all students to capitalize on their strengths.
- Most of the time, enable all students to correct or compensate for their weaknesses.
- Make sure your assessments match your teaching, calling upon analytical, creative, and practical as well as memory skills.
- Value the diverse patterns of abilities in all students.
Anchor Activities
A task to which a student automatically moves when an assigned task is finished

Traits
- **Important**—related to key knowledge, understanding and skill
- **Interesting**—appeals to student curiosity, interest, learning preference
- **Allow Choice**—students can select from a range of options
- **Clear Routines and Expectations**—students know what they are to do, how to do it, how to keep records, etc.
- **Seldom Graded**—teachers should examine the work as they move around the room. Students may turn in work for feedback. Students may get a grade for working effectively, but seldom for the work itself. The motivation is interest and/or improved achievement.

Generally, homework is not an acceptable anchor activity—and anchor activities are typically completed individually.

Beginning Anchor Activities...
- Teach one key anchor activity to the whole class very carefully. Later, it can serve as a point of departure for other anchors.
- Explain the rationale. Let students know you intend the activities to be helpful and/or interesting to them. Help them understand why it’s important for them to work productively.
- Make sure directions are clear and accessible, materials readily available, and working conditions support success.
- Think about starting with one or two anchor options and expanding the options as students become proficient with the first ones.
- Monitor student effectiveness with anchors and analyze the way they are working with your students.
- Encourage your students to propose anchor options.
- Remember that anchor activities need to stem from and be part of building a positive community of learners.

Examples of Possible Activities
- Reading from supplementary material
- Working on final products
- Journal writing
- Vocabulary extension
- Learning about the people behind ideas
- Learning about careers in the field of the ideas
- Current events reading
- Designing or completing “virtual science experiments”
- Developing or completing relevant graphic organizers
- An idea for an improvement, invention, innovation
- Research more about a topic
- Write a newspaper article about a topic (who, what, when, where, how)
**Learning Centers**

A learning center is a classroom area that contains a collection of activities or materials designed to teach, reinforce, or extend a particular skill or concept. An interest center is designed to motivate students’ exploration of topics in which they have a particular interest.

**Possible Center Activities**

<table>
<thead>
<tr>
<th>Read</th>
<th>Solve</th>
<th>Deduce</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>Start</td>
<td>Theorize</td>
<td>Compare</td>
</tr>
<tr>
<td>Make</td>
<td>Construct</td>
<td>Rate</td>
<td>Measure</td>
</tr>
<tr>
<td>Write</td>
<td>Research</td>
<td>Rate</td>
<td>Identify</td>
</tr>
<tr>
<td>Build</td>
<td>Criticize</td>
<td>Act out</td>
<td>Editorialize</td>
</tr>
<tr>
<td>Imagine</td>
<td>Advertise</td>
<td>Discover</td>
<td>Find out</td>
</tr>
<tr>
<td>Hypothesize</td>
<td>Experiment</td>
<td>Chart</td>
<td>Design</td>
</tr>
<tr>
<td>Develop</td>
<td>Improve</td>
<td>Survey</td>
<td>Invent</td>
</tr>
<tr>
<td>Explain</td>
<td>Interview</td>
<td>Predict</td>
<td>Refute</td>
</tr>
<tr>
<td>Conduct</td>
<td>Shadow</td>
<td>Observe</td>
<td>Question</td>
</tr>
<tr>
<td>Devise</td>
<td>Visit</td>
<td>Demonstrate</td>
<td>Talk</td>
</tr>
<tr>
<td>Arrange</td>
<td>Create</td>
<td>Plan</td>
<td>Tell</td>
</tr>
<tr>
<td>Investigate</td>
<td>Brainstorm</td>
<td>Measure</td>
<td>Convince</td>
</tr>
<tr>
<td>Use</td>
<td>Analyze</td>
<td>Graph</td>
<td>Study</td>
</tr>
<tr>
<td>Substitute</td>
<td>Evaluate</td>
<td>List</td>
<td>Illustrate</td>
</tr>
<tr>
<td>Rearrange</td>
<td>Match</td>
<td>Combine</td>
<td>Adapt</td>
</tr>
<tr>
<td>Collect</td>
<td>Describe</td>
<td>Map</td>
<td>Listen</td>
</tr>
</tbody>
</table>

**Possible Products**

<table>
<thead>
<tr>
<th>Map</th>
<th>Lecture</th>
<th>Book list</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagram</td>
<td>Tour</td>
<td>Puzzle</td>
<td>Editorial</td>
</tr>
<tr>
<td>Sculpture</td>
<td>Printing</td>
<td>Costume</td>
<td>Placement</td>
</tr>
<tr>
<td>Discussion</td>
<td>Blueprint</td>
<td>Catalogue</td>
<td>Dialogue</td>
</tr>
<tr>
<td>Demonstration</td>
<td>Newspaper</td>
<td>Scrapbook</td>
<td>Lecture</td>
</tr>
<tr>
<td>Poem</td>
<td>Questionnaire</td>
<td>Flag</td>
<td>Graph</td>
</tr>
<tr>
<td>Profile</td>
<td>Museum</td>
<td>Advertisement</td>
<td>Computer program</td>
</tr>
<tr>
<td>Chart</td>
<td>Calendar</td>
<td>Coloring book</td>
<td>Song</td>
</tr>
<tr>
<td>Play</td>
<td>Game</td>
<td>Research Project</td>
<td>TV Show</td>
</tr>
<tr>
<td>Dance</td>
<td>Dictionary</td>
<td>Film</td>
<td>Collection</td>
</tr>
<tr>
<td>Campaign</td>
<td>Trial</td>
<td>Machine</td>
<td>Book</td>
</tr>
<tr>
<td>Cassette</td>
<td>Mural</td>
<td>Award</td>
<td>Recipe</td>
</tr>
<tr>
<td>Quiz Show</td>
<td>Model</td>
<td>Timeline</td>
<td>Toy</td>
</tr>
<tr>
<td>Banner</td>
<td>Article</td>
<td>Diary</td>
<td>Poster</td>
</tr>
<tr>
<td>Brochure</td>
<td>Magazine</td>
<td>Photographs</td>
<td>Terrarium</td>
</tr>
<tr>
<td>Debate</td>
<td>Petition drive</td>
<td>Teaching lesson</td>
<td>Prototype</td>
</tr>
<tr>
<td>Flow Chart</td>
<td>Speech</td>
<td>Club</td>
<td>Test</td>
</tr>
<tr>
<td>Puppet Show</td>
<td>Cartoon</td>
<td>Biography</td>
<td>Review</td>
</tr>
</tbody>
</table>
Learning Contracts

Contracts take a number of forms that begin with an agreement between student and teacher. The teacher grants certain freedoms and choices about how a student will complete tasks, and the student agrees to use the freedoms appropriately in designing and completing work according to specifications.

A learning contract has the following components:

1. A skills component
   - Focus is on skills-based tasks.
   - Assignments are based on pre-assessment of students’ readiness.
   - Students work at their own level and pace.

2. A content component
   - Focus is on applying, extending, or enriching key content (ideas, understandings)
   - Requires sense making and production
   - Assignment is based on readiness or interest.

3. A time-line
   - Teacher sets completion date and check-in requirements
   - Students select order of work (except for required meetings and homework.

4. The agreement
   - The teacher agrees to let students have freedom to plan their time.
   - Students agree to use the time responsibly.
   - Guidelines for working are spelled out.
   - Consequences for ineffective use of freedom are delineated.
   - Signatures of the teacher, student and parent (if appropriate) are placed on the agreement.
Menu Planner for (Name __________________)

Appetizers

Something I can always be working on

Main Course

Required

Soups/ Salads

Homework Assignments

Desserts

Things I can do to challenge myself
RAFT

RAFT is an acronym that stands for
Role of the writer-- What is the writer's role: reporter, observer, eyewitness?
Audience-- Who will be reading this writing: the teacher, other students, a parent, people in the community, an editor?
Format-- What is the best way to present this writing: in a letter, an article, a report, a poem?
Topic—Who or what is the subject of this writing: a famous mathematician, a prehistoric cave dweller, a reaction to a specific event?

Sample Second Grade—Plants
S2L1. c. Investigate the life cycle of a plant by growing a plant from a seed and by recording changes over a period of time.

<table>
<thead>
<tr>
<th>Role</th>
<th>Audience</th>
<th>Format</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed</td>
<td>The Sun, Water, and Soil</td>
<td>2 riddles</td>
<td>Why do I need you?</td>
</tr>
<tr>
<td>Seedling</td>
<td>Nearby Plants</td>
<td>Song or poem</td>
<td>What will I be when I grow up?</td>
</tr>
<tr>
<td>Mature Plant</td>
<td>Seeds &amp; Seedlings</td>
<td>Letter</td>
<td>How I have changed</td>
</tr>
</tbody>
</table>

S8P3. Students will investigate the relationship between force, mass, and the motion of objects.

a. Determine the relationship between velocity and acceleration.
b. Demonstrate the effect of balanced and unbalanced forces on an object in terms of gravity, inertia, and friction.

<table>
<thead>
<tr>
<th>Role</th>
<th>You will assume the role of a crash course dummy.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audience</td>
<td>New teenage drivers applying for their driving permit.</td>
</tr>
<tr>
<td>Format</td>
<td>The format you will use is a public service announcement. Assuming the role of a crash course dummy, you wish to inform new, student drivers the course of actions that occur when driving 50 mph and running off the road hitting a tree head on. In the absence of a seatbelt, was a force applied to the driver? Tree? Car? What are the implications if a seatbelt had been worn? How is the extent of the injuries determined?</td>
</tr>
<tr>
<td>Topic</td>
<td>Force, inertia and safety.</td>
</tr>
<tr>
<td>RAFT Rubric</td>
<td>4</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>Information, details in RAFT always accurate and properly reflects information, ideas and themes related to the subject</td>
</tr>
<tr>
<td><strong>Perspective</strong></td>
<td>RAFT maintains clear, consistent point of view, tone and ideas relevant to role played; ideas and information always tied to role and audience</td>
</tr>
</tbody>
</table>
**Think Dots** - Kay Brimijoin, Chittenden South Supervisory Union, Vermont

After a conceptual unit has been presented and students are familiar with the ideas and associated skills, “Think DOTS” is an excellent activity for students to construct meaning for themselves about the concept they are studying. The instructor first defines readiness levels, interests, or learning styles in the class, using on-going assessment.

Each student is given a set of activity cards on a ring, a die, and an activity sheet. Each student rolls the die and completes the activity on the card that corresponds to the dots thrown on the die. Each student then completes the activity on the activity sheet.

**Materials**
- 8 1/2 X 11 inch paper
- Hole punch
- Metal or plastic rings
- Dice
- Scissors
- Markers or dots
- Laminating materials

**Construction**
1. For each readiness level, six activities should be created.
2. On an 8 1/2 X 11 inch page divided into six sections. (This can be done easily on the computer by creating a 2 X 3 cell table and saving it as a template.), the activities should be written or typed in each section.
3. On the back of each page, dots corresponding to the dots on the faces of a die should be either drawn or affixed. (You can use adhesive dots.) on each of the six sections of the page.
4. The pages should be laminated for durability.
5. Then each page should be cut into the six sections.
6. Use a hole punch to make holes in one corner or in the top of each activity card.
7. Use a metal or plastic ring to hold each set of six cards together.
8. Create an Activity Sheet to correspond to the lesson for easy recording and management.

**Suggestions**
- Use colored paper and/or colored dots to indicate different readiness levels, interests or learning styles.
- Have students work in pairs.
- Let students choose which activities—for example: roll the die and choose any three; create complex activities and have students choose just one to work on over a number of days.
- After students have worked on activity cards individually, have them come together in groups by levels, interest, or learning style to synthesis.

**Application**
- Use ThinkDOTS to lead students into deeper exploration of a concept.
- Use ThinkDOTS for review before assessment.
- Use ThinkDOTS as an assessment.
Think Tac Toe

This plays off the game of Tic Tac Toe. It is a grid that has nine cells. The number of rows and cells can of course be adjusted.

It is important that no matter which choices students make, they must work on the knowledge and skills key to the understanding of the concept.

This assessment can be used with all grades and will all subjects. The idea is for students individually or in groups to choose three projects to do. The top line is simple, the middle line is a bit more difficult and the bottom line is composed of projects that would take several days to complete. Students can select any of the three columns (which would include one project from each level), or they could choose either diagonal. Teachers may decide to assign particular projects to the groups.

A well designed grid allows for differentiation by readiness, interest, and/or learning styles. Students must complete at least three squares, horizontal, vertical, or diagonal so they reach different levels.

**Sample:**

<table>
<thead>
<tr>
<th>Create a poster supporting ...</th>
<th>Make a collection of nursery rhymes or poems about...</th>
<th>Find 2 articles regarding...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predict what would happen if...</td>
<td>Prepare a diorama of ...</td>
<td>Write an interview for...</td>
</tr>
<tr>
<td>Do a comic strip panel of...</td>
<td>Write down three observations of...</td>
<td>Investigate and report on...</td>
</tr>
</tbody>
</table>
**Tiered Assignments**

Guidelines

- Be sure the task is focused on a key concept or generalization essential to the study.
- Use a variety of resource materials at differing levels of complexity and associated with different learning modes.
- Adjust the task by complexity, abstractness, number of steps, concreteness, and independence to ensure appropriate challenge.
- Be certain there are clear criteria for quality and success.
- Design a respectful activity that is just above the level of the learner. No student should look at the task and say, “I guess I’m in the dumb group.”
Bingo!

Product:
Students in your group must choose activities that would give you a Bingo, such as across, up/down, or diagonally. The idea is that students are using different strategies to accomplish the goal in multiple formats. This can be used to reinforce definitions, new vocabulary, math problems, even long thought out questions.

<table>
<thead>
<tr>
<th>Letter to a Friend</th>
<th>Cereal Box</th>
<th>Picture Book</th>
<th>Greeting Card</th>
<th>Short Story</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rules for a Game</td>
<td>Advertisement</td>
<td>Recipe</td>
<td>Model with labels</td>
<td>Puzzle or Riddle</td>
</tr>
<tr>
<td>Skit or Scene</td>
<td>Little Book</td>
<td>FREE BINGO SPACE</td>
<td>Poster</td>
<td>Newspaper Article</td>
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<td>Power Point slides</td>
<td>Letter to the Editor</td>
<td>Song Lyrics</td>
<td>Interview</td>
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<td>Poem</td>
<td>Instructions</td>
<td>Vision into the Future</td>
<td>Letter to the Teacher</td>
<td>Oral Report</td>
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Walking Into and Through a Picture

Show students a picture of a habitat with a variety of organism. Have students study the picture to answer these questions.

1. Looking down into the picture, what do you see?

2. Jumping into the picture, what does it feel like?

3. Can you identify any figures in the picture?

4. If those figures could speak, what would they be saying?

5. Moving around inside the picture, what is the temperature like?

6. Do you feel comfortable in your surroundings?

7. If you could taste the scene, what would it taste like?

8. Looking around the background, do you notice anything you missed?

9. If you could touch particular parts of the scene, what would they feel like?

10. Does the picture remind you of a place you have been?

11. What is your emotional response to this picture?

http://www.rcs.k12.tn.us/rc/departments/ITS/Teacher_Resources
Product Ideas for Reviewing and Reporting

Flip Books

1. Give each student three sheets of paper.
2. With a ruler, show how to place the paper so there is a 1 inch overlap on each paper.
3. Show how to fold the paper so the student will have a six page booklet.
4. Staple the top.

Little Books

1. Fold an 8 1/2” X 11” piece of paper hot dog style (lengthwise).
2. Fold paper hamburger style (widthwise) TWICE.
3. Open paper and fold in center.
4. Cut the fold to the first crease.
5. Open and fold hot dog style. (You should see a diamond-shaped tunnel.)
6. Hold ends and press toward the center.
7. Fold all pages in the same direction to make the book.
8. The book has seven total pages including a front cover, five pages, and a back page.

Magic Books

One sheet of 9 X 12 paper
One sheet of 12 X 18 paper

1. Cut 9 X 12 sheet in half lengthwise.
2. Fold the 12 X 18 sheet widthwise twice.
3. Open and fold the outside flaps back to make a “W.”
4. Mark 3”, 6”, and 9” on center folded edge.
5. Mark 3”, 6”, and 9” on other crease lightly and connect the points to make a line.
6. Cut along the line from fold to crease.
Take strips out from 9 X 12 paper and weave in and out. One side is under then over and the other side is over then under.
### RAFT Standard

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### Elements

- Bingo!

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### Cube

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### Questions

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### Tiered Assignment

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# IDEA BLOG

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Cubing

Decide which part of your unit lends itself to optional activities. You can make different cubes for different interests, different levels, or different topics.

**Step One:** Write 6 questions that ask for information. Use levels of Bloom, intelligence levels to design questions. Keep one question opinion based—no right or wrong—open ended.

**Step Two:** Use the first cube as your “average” cube; create 2 more using one as a lower level and one as a higher level. Remember all cubes need to cover the same type of questions, just geared to the level. Don’t water down or make too busy! Label or color key your cubes so you know which level of readiness you are addressing. Ask another teacher to read the questions and ask if they can tell high, medium, or low. If they can’t tell, adjust slightly.

**Step Three:** Always remember to have an easy problem on each cube and a hard one regardless of the levels. Color code the cubes for easy identification and also if students change cubes for questions. Decide on the rules: Will the students be asked to do all 6 sides? Roll and do any 4 sides? Do any two questions on each of the 3 cubes.

Places to get questions: old quizzes, worksheets, textbook study problems, student generated questions

**Describe it:** Look at the subject closely (perhaps with your senses as well as your mind).

**Compare it:** What is it similar to? What is it different from?

**Associate it:** What does it make you think of? What comes to your mind when you think of it? Perhaps people? Places? Things? Feelings? Let your mind go and see what feelings you have for the subject.

**Analyze it:** Tell how it is made. What are its traits and attributes?

**Apply it:** Tell what you can do with it. How can it be used?

**Argue for it or against it:** Take a stand. Use any kind of reasoning you want—logical, silly, anywhere in between.

**Ideas for Cubing:**

- **Arrange** ___ into a 3-D collage to show _____
- **Make** a body sculpture to show _____
- **Create** a dance to show ___
- **Do** a mime to help us understand
- **Present** an interior monologue with dramatic movement that ___
- **Build/construct** a representation of ___
- **Make** a living mobile that shows and balances the elements of ___
- **Create** authentic sound effects to accompany a reading of ___
- **Show** the principle of ___ with a rhythm pattern you create.
- **Explain** how that works.
Cube Template To Make in Training
Cube Template To Take