

The Grid Method

Monday, January 7, 2019

AGENDA

1. Introduction
 - *What it is....
 - *How we were convinced to use it.....
- 2 .How "The Grid Method" Works
 - *DOK/Levels of "The Grid"
 - *Practice Activity
3. How We Like It/Use It
4. Question

What Is It

*"It" allow learners to work through a "grid" with standard driven, scaffolded assignments increasing in complexity and Depth of Knowledge.

*"It" permits the student to access to the content and activities at their own pace.

*"It" creates situations for advancing only after 90-100% competency is shown on a given activity.

*"It" lends to formative assessment data gathered on every activity on levels 1-3, and summative data on level 4.

*"It" enables the teacher to flexibly Individualize Intervention and differentiate as needed.

OUR SHORT STORY

(How we were
convinced....)

We went to a
conference.....

"I'm going to change the
way you teach forever!"

CAUGHT OUR ATTENTION

The Problems

- *Low student performance
- *Failure to reach "ALL" learners
- *Management Issues
- *Lack of ownership in learning
- *I was merely "surviving" .

The Solutions

- *Hold learners accountable
- *Make content more targeted & accessible
- *Let learners set pace
- *Maintain high expectations through mastery based system
- *Evolve and adapt to "thrive"*

DOK LEVELS

Depth of Knowledge Levels

DOK 1 - Jeopardy - Just answering questions.

Language Arts Example: Sequence the directions for making the paper airplane from the story.

Math Example: Evaluate the following problems.

1. $1.36 \div 6 =$

2. $13.6 \div 6 =$

3. $0.136 \div 6 =$

DOK 2 - Iron Chef - You are given the ingredients and must do something with them.

Language Arts Example: Identify and summarize the significant events in the novel you are reading.

Math Example: A Design Central client is looking for a rectangular ottoman. They want one with the most storage space possible, but they need a height between 14 inches and 16 inches. What are the options available in a rectangular design?

DOK 3 - Survivor - You have to use your skills to complete complex task. Language Arts Example: Evaluate how the different backgrounds and cultures of the characters in the story impacted the events and outcome of the story.

Math Example: Use the distributive property to create equations.

DOK 4 - Shark Tank - You have to take what you know and create something new.

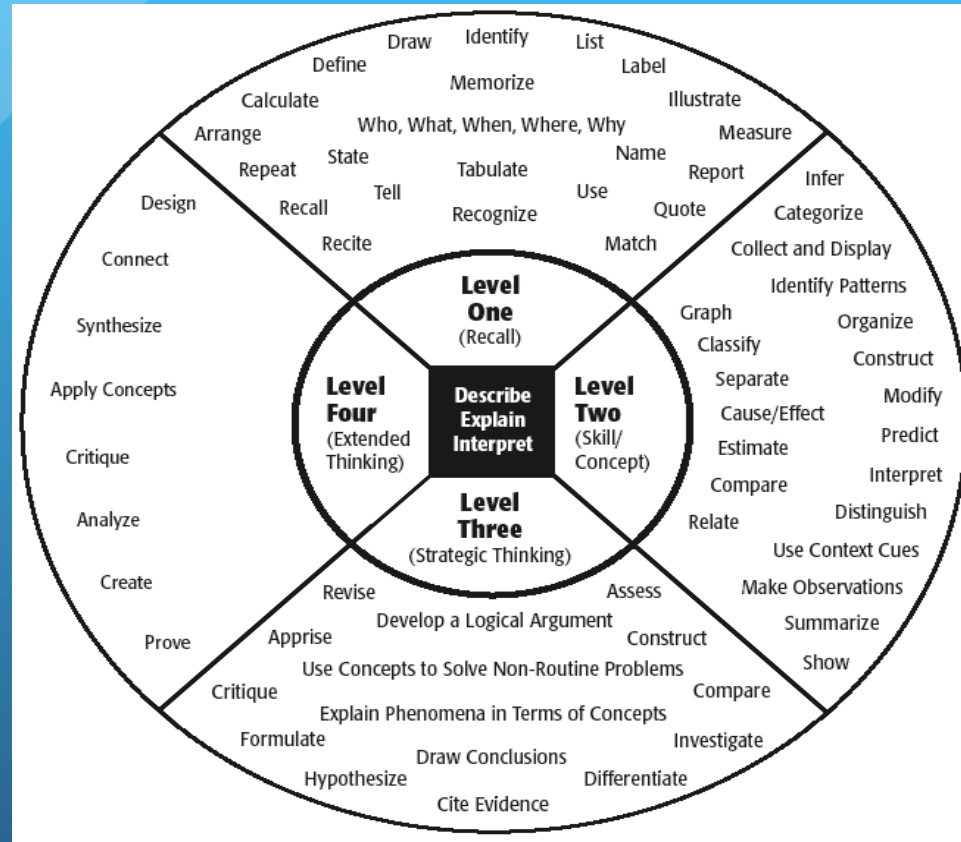
Language Arts Example: Describe and illustrate how two of the common themes discussed in class are found across texts in different cultures.

Math Example: Represent the three data sources in ways that would lead the audience to come to different conclusions regarding the data.

DOK 5 - Independent Exploration - The final level or "Extra Level" should be provided to students who have mastered the material at all other described levels.

At this level an example should include a project that extends learner knowledge about the content covered. These projects are encouraged to be cross curricular with student input when appropriate.

DOK WHEEL



HOW TO GET STARTED

- *Vocabulary Words
- *Working List of Activities
- *Blank Grid

Example Grid

Name: _____

Start Date: _____

Topic: Division– PROGRESSIVE MASTERY LEARNING GRID



STANARD / CONTENT STATEMENT:

3.OA.2 Interpret whole-number quotients of whole numbers, e.g. interpret $56/8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.

3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

3.OA.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers.

3.OA.6 Understand division as an unknown factor problem.

VOCABULARY TERMS:

Factor: the two numbers you divide

Quotient: the answer to a division problem

Example Grid

<p>Level 5: Extension/Enrichment</p> <p>Target: I can solve division problems.</p>	<p>5A: Big 7 Division</p> <p>Need: Big 7 Division sheet (bin), whiteboard, dry erase marker</p> <p>Assignment: Come see me to learn how to do Big 7 division. Then, complete the Big 7 Division sheet. Show me your answers when you're finished.</p>	<p>5B: Big 7 Division with Remainders</p> <p>Need: Big 7 Division with Remainders sheet (bin), whiteboard, dry erase marker</p> <p>Assignment: Come see me to learn how to do Big 7 division. Then, complete the Big 7 Division with Remainders sheet. Show me your answers when you're finished.</p>	<p>5C: Movie Marathon Division</p> <p>Need: Movie Marathon Division packet, whiteboard, dry erase marker, pencil</p> <p>Assignment: Complete the Movie Marathon Division packet. Show me when you are finished.</p>
<p>Level 4: Final Product</p> <p>Target: I can show solve division problems.</p>	<p>4A: Study Guide</p> <p>Need: Study guide (bin), pencil</p> <p>Assignment: Complete the study guide and then see me to check the answers. Take the study guide home and study. Bring back with a parent signature showing you studied to earn a Mohawk Buck!</p>	<p>4B: Division Assessment</p> <p>Need: Chromebook, Notebook paper (bin), pencil</p> <p>Assignment: Complete the Division Assessment on Edulastic. Do your very best ☺ This is for a grade!</p>	
<p>Level 3: Investigate</p> <p>Target: I can find the missing factor in division problems.</p>	<p>3A: Missing Factors</p> <p>Need: Chromebook, whiteboard, dry erase marker</p> <p>Assignment: Complete the How To Solve Missing Factor Division Problems on Edulastic. Come show me your score when you're done.</p>	<p>3B: Missing Factor Task Cards</p> <p>Need: Task Card recording sheet (bin), clipboard, white board, dry erase marker, pencil</p> <p>Assignment: Complete the task cards around the room. Solve each problem by making equal groups or arrays. Turn in when you're finished. Do your best, I will pick 10 to grade.</p>	
<p>Level 2: Apply and Demonstrate</p> <p>Target: I can solve division word problems.</p>	<p>2A: Division Word Problems</p> <p>Need: Division Word Problems sheet (bin), pencil</p> <p>Assignment: Complete the division word problems sheet. Come show me your answers when you're finished.</p>	<p>2B: IXL</p> <p>Need: Chromebook, notebook paper (bin), pencil</p> <p>Assignment: Complete this assignment on IXL:</p> <ul style="list-style-type: none"> • L.5 <p>Show your work on notebook paper. Solve problems until your Smart Score is 100. Show me when you get there.</p>	
<p>Level 1: Define and Recall</p> <p>Target: I can solve division problems using different strategies.</p>	<p>1A: Cookie Division</p> <p>Need: Sharing Cookies Sheet (bin), Pencil</p> <p>Assignment: We just read the story The Doorbell Rang. Solve the different situations that could have happened in the story by drawing equal groups. Come show me your answers when you're done.</p>	<p>1B: Division with Arrays</p> <p>Need: Division with Arrays baggie (bin), Sunshine and Division sheet (bin), pencil</p> <p>Assignment: Pull the cards out of the bag and match the array to the matching division sentence that is on the sunglasses. Then, write the division sentence and a multiplication sentence that goes with it on the answer sheet. Come show me when you're done.</p>	<p>1C: Division Task Cards</p> <p>Need: Task Cards recording sheet (bin), clip board, white board, dry erase marker, pencil</p> <p>Assignment: Complete the task cards around the room. Solve each problem by making equal groups or arrays on your white board. Turn in when you're finished. Do your best, I will pick 10 to grade.</p>

DOK SORT

1. Contained in the plastic bag are written activities taken from a prepared grid.
2. Your task is to determine what DOK Level each one should be classified.
3. Organize the activities into groups for each DOK Level.
4. When you finish let us know. We will come with the original grid for you to check.

We started a google classroom that we will share grids as we make them. The code for that is 7mkbk5.

THOUGHTS AND QUESTIONS