

Suggestions and/or Directions for Implementing Extended Concept (1) Activities

Students will benefit from pencils with erasers, if possible since revisions are part of learning. Students should be allowed to start on any page of these activities but try to keep on one page. Students should use their existing and current textbook(s) as a literacy reference for concepts. After completing Grouped Computation activities, students should assemble with team mates. Individuals and teams investigate & collect definitions & examples for concepts, then discuss. Students may revise their definitions and examples with improvement(s) after team discussion. As teachers mingle among teams collaborating on definitions & examples, they should facilitate learning by challenging students to complete their assignments by using textbooks and each other. Usually, stronger students finish first and they can revise their assignments with little or no help then as more challenged students finish, team leaders should discuss & revise with team mates. These collaborative teams should be carefully selected with a strong student as leader and there should not be more than 2 or 3 students in a collaborative team. Leader & team mates! Team Leaders should assist challenged students with revising and/or improving assignments. If not enough students are strong enough to be leaders then challenged work with challenged. Teachers mingle around classroom, when asked about a concept, suggest team mates answer! If all of the team mates can not answer the question(s) then back to the textbook for more work. This will naturally and at first be a challenging and frustrating assignment however be persistent! This creates an atmosphere of students helping students & teachers facilitating concept activities. Completing, Discussing Activities, Revising Concepts, and Collaborating might need (2) periods. If any students want to take an assignment home then suggest waiting until team decides on results. Students may want to do them at home since parents will help or complete definitions & examples but only allow Parents involvement after the Team together has a chance to complete assignments!

Computational Activities alternate daily with Conceptual Activities. Every other Day!

Learning concepts is traditionally attempted with workbook exercises, classroom manipulatives, WWW exercises and manipulatives! Why not a “**Literacy Approach**” along with all the above?

Beginning Numbers * Extended Concepts 1 A

Definitions should be re-stated or paraphrased textbook definitions not word for word!

After completing Conceptual Activities, Students gather in Teams and Collaborate! Provide or Receive Help!

These Conceptual Activities can be done Individual or in Collaborative Teams! But always supervised!

1. Define and provide an example of a number and a numeral! Augments computation!
2. Define and provide an example for proper and improper fractions. Augments computation!
3. Define and provide an example for simple and mixed decimal. Augments computation!
4. Define and provide an example(s) for Fraction(s), N&D, P&I, Mixed Number. Augments computation!
5. Define & provide example of of exponents 0 to 3 as in Beginning Numbers 1 Augments computation!
6. Define & provide examples of any four simple radicals as in Beginning Numbers 1. Augments computation!
7. Define & provide an example of a proportion and apply The Law for Proportions! Augments computation!
8. Define & provide an example of a percentage then change to a proportion & solve! Augments computation!

Beginning Numbers * Extended Concepts 1 B

Definitions should be re-stated or paraphrased textbook definitions not word for word!

After completing Conceptual Activities, Students gather in Teams and Collaborate! Provide or Receive Help!

These Conceptual Activities can be done Individual or in Collaborative Teams! But always supervised!

1. Define and provide an example for the operation of Addition with names included! Use PP to review!

2. Define and provide an example for the operation of Subtraction with names included!! Use PP to review!

3. Define and provide an example for the operation of Multiplication with names included! Use PP to review!

4. Define and provide an example for the operation of Division with names included!! Use PP to review!

5. Provide an example of a (6) Digit Number and Identify by Place Value all Digits! Use PP to review!

6. Provide an example of a (6) Digit Number then Read the Number out loud to team! Use PP to review!

7. Provide an example of a (6) Digit Number then Write the in words for team to check! Use PP to review!

8. Provide example of a (6) Digit Number in Expanded Notation then Define in words! Use PP to review!

Beginning Numbers * Extended Concepts 1 C

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After completing Conceptual Activities, Students gather in Teams and Collaborate! Provide or Receive Help!

These Conceptual Activities can be done Individual or in Collaborative Teams! But always supervised!

1. Provide example of a (6) Digit Number in Exponential Notation then Define in words! Use PP to review!

2. Provide examples of (3) Numbers to be rounded in different ways then define rounding! Use PP to review!

3. Provide examples of (3) Numbers to be estimated in different ways then define estimating! Use PP to review!

4. Provide (2) examples of Scientific Notation with Large Numbers then define in words! Use PP to review!

5. Provide (3) pairs of examples to Compare Whole Numbers using $< = >$ relation symbols! Use PP to review!

6. Provide (3) pairs of examples to Compare Fraction Numbers using $< = >$ relation symbols! Use PP to review!

7. Provide (3) pairs of examples to Compare Decimals Numbers using $< = >$ relation symbols! Use PP to review!

8. Provide (3) individual Whole Numbers of different value then Rank Hi to Lo & Lo to Hi! Use PP to review!

Beginning Numbers * Extended Concepts 1 D

Definitions should be re-stated or paraphrased textbook definitions not word for word!

After completing Conceptual Activities, Students gather in Teams and Collaborate! Provide or Receive Help!

These Conceptual Activities can be done Individual or in Collaborative Teams! But always supervised!

1. Provide (3) individual Fraction Numbers of different value then rank Hi to Lo & Lo to Hi! Use PP to review!

2. Provide (3) individual Decimal Numbers of different value then rank Hi to Lo & Lo to Hi. Use PP to review!

3. Define Factors then provide an example of a Number such as 24 showing all factors. Use PP to review!

4. Define Multiples then Provide an example of a Number such as 3 showing (6) multiples. Use PP to review!

5. Define and provide a few examples of the sets of Counting and Whole Numbers. Use PP to review!

6. Define and provide a few examples of the sets of Even and Odd Numbers. Use PP to review!

7. Define and provide a few examples of the sets of Prime and Composite Numbers. Use PP to review!

8. Define and provide a few examples of the sets of Finite and Infinite Numbers. Use PP to review!