# Grade 3 Mathematics - Unit 3: Multiplication and Division Phoenixville Area School District 

## Stage 1 Desired Results

| PA Core Standards: |
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| CC.2.2.3.A. 1 |
| Represent and solve |
| problems involving |
| multiplication and |
| division. |

CC.2.2.3.A. 2

Understand properties of multiplication and the relationship between multiplication and division.
CC.2.2.3.A. 3

Demonstrate multiplication and division fluency.
CC.2.2.3.A. 4 Solve problems involving the four operations and identify and explain patterns in arithmetic.
CC.2.2.3.A. 4 Solve problems involving the four operations and identify and explain patterns in arithmetic.

## TRANSFER GOALS

Students will be able to independently use their learning to...

- Demonstrate automatic recall of addition, subtraction, multiplication and division facts.
- Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems.
- Interpret mathematical vocabulary and apply proper terminology to engage in meaningful oral and written expression that communicates mathematical thinking, problem-solving methods, and rationale.


## UNDERSTANDINGS <br> Students will understand that... <br> Meaning <br> ESSENTIAL QUESTIONS <br> Students will keep considering...

- There are many ways to represent a number.
- Operations and numerical properties increase computational fluency.
- Depending on the situation, problems may be solved using a variety of tools and strategies.
- Mathematical situations and structures can be represented and analyzed using symbols to advance algebraic thinking.
- What are different ways to represent a number?
- How are the basic operations related to one another? How do numerical properties assist in computation?
- What information and strategies do I use to solve this problem? What is the right tool (operation/ strategy/ technology) for the job?
- How do we use symbols to create mathematical meaning?
- What is the unknown? How do I find it?
- What does this expression/equation mean? What are the ways to represent it? Is there a best way?



## Stage 2 - Evidence

| Stage 2-Evidence |  |  |  |
| :---: | :---: | :---: | :---: |
| Code A/M/T | Evaluative Criteria | Assessment Evidence |  |
| A/M/T <br> Acquisition <br> Meaning Making <br> Transfer | What criteria will be used in each assessment to evaluate attainment of the desired results? | PERFORMANCE TASK(S) <br> Students will demonstrate understanding (meaning-making and transfer) through complex performance by... <br> - Performance Assessment Unit 4 <br> Students will apply various strategies to solve basic multiplication and division facts. Students will use basic multiplication facts to solve multiplication and division problems, and multiply one-digit whole numbers by multiples of ten and/or hundred. <br> - Goal: Your task is to solve multiplication and division problems to complete a performance task(s). <br> - Role/Audience: Buying School Supplies <br> - Situation/Product: You will use numbers and written expression to explain your answers <br> - Success Criteria: Your answers must include your work, answer and a label. | Differentiation Considerations: <br> Read Performance Task to Students |
| A/M/T <br> Acquisition <br> Meaning Making <br> Transfer | What criteria will be used in each assessment to evaluate attainment of the desired results? | OTHER EVIDENCE <br> - Math in Focus 2020 Chapter Test 4 <br> - Teacher Observation <br> - Teacher created quizzes <br> - Small Group Work | Differentiation Considerations: <br> Small Group reteaching <br> Enrichment/Put on Your Thinking Cap, Math Journal |

