<table>
<thead>
<tr>
<th>Teacher(s):</th>
<th>Mathematical Topic(s):</th>
<th>Date:</th>
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### 1. Makes sense of problems and perseveres in solving them
- ☐ Understands the meaning of the problem and looks for entry points to its solution
- ☐ Analyzes information (givens, constraints, relationships, goals)
- ☐ Designs a plan

- ☐ Monitors and evaluates the progress and changes course as necessary
- ☐ Checks their answers to problems and ask, “Does this make sense?”

Comments:

### 2. Reason abstractly and quantitatively
- ☐ Makes sense of quantities and relationships
- ☐ Represents a problem symbolically
- ☐ Considers the units involved
- ☐ Understands and uses properties of operations

- ☐ Apply reasoning to create a plan or analyze a real world problem
- ☐ Applies formulas/equations
- ☐Makes assumptions and approximations to make a problem simpler
- ☐ Checks to see if an answer makes sense and changes a model when necessary

Comments:

### 3. Construct viable arguments and critique the reasoning of others
- ☐ Uses definitions and previously established causes/effects (results) in constructing arguments
- ☐ Makes conjectures and attempts to prove or disprove through examples and counterexamples
- ☐ Communicates and defends their mathematical reasoning using objects, drawings, diagrams, actions
- ☐ Listens or reads the arguments of others
- ☐ Decide if the arguments of others make sense
- ☐ Ask useful questions to clarify or improve the arguments

- ☐ Identifies relevant external math resources (digital content on a website) and uses them to pose or solve problems
- ☐ Makes sound decisions about the use of specific tools. Examples may include:
  - Calculator
  - Concrete models
  - Digital Technology
  - Pencil/paper
  - Ruler, compass, protractor
- ☐ Uses technological tools to explore and deepen understanding of concepts

Comments:

### 4. Model with mathematics.

Comments:

### 5. Use appropriate tools strategically.

Comments:

### 6. Attend to precision.
- ☐ Communicates precisely using clear definitions
- ☐ States the meaning of symbols, calculates accurately and efficiently

- ☐ Provides carefully formulated explanations
- ☐ Labels accurately when measuring and graphing

Comments:

### 8. Look for and express regularity in repeated reasoning
- ☐ Notices repeated calculations and looks for general methods and shortcuts
- ☐ Continually evaluates the reasonableness of their results while attending to details and makes generalizations based on findings
- ☐ Solves problems arising in everyday life

Comments: