Lesson Objectives
List the standards for this lesson.

Key Points for Students

- Use pencil, paper, and manipulatives to help you answer the questions.
- Most students earn a bronze medal (standard met) after 3 attempts by answering most of the HARD questions correctly. You cannot earn a gold medal on the first play.
- In Prodigi, if you answer 3 in row correctly you will to move up a level, 2 in a row incorrect moves you down one level.
- Hints and Free Solve pause the timer. Drag them out of the way to give yourself more time to answer a question.
- At the end of each Prodigi round, click the red blocks to see how to work out problems you got wrong. Play TEACH ME questions for extra help.

Progression of Learning

List the supporting standards along the progression of learning to help you identify entry points for differentiation.

Vocabulary

Words, symbols, and notation

Common Errors

Common mistakes and misconceptions

Differentiation

Disable timer on Prodigi assignment, provide manipulatives and tools, pair students with a buddy

Knowledge Building: Select a Prodigi

Fluency Practice: Select a Game

Extension: Direct students to play Recommended challenges.

1) Lesson Prep

- Assign activities to students.
- Decide to use an Exit Ticket or Reflection Sheet in this lesson and make copies.

2) Opener

- Opener: Display the TEACH ME questions for the class. Students show answers on mini whiteboards.
- Set students off to work. Remind them that their goal is a Bronze medal and that most students earn a Bronze after 3 tries.

3) Knowledge Building Activity

- 10-12 min. Students play the Prodigi challenge. Optional: students analyze errors on the reflection sheet.
- Circulate while students work, monitoring the number of attempts and common errors for the mathematics talk or mini-lesson.

4) Mathematics Talk or Mini Lesson

- Present common errors then facilitate students' discussion to share strategies. Encourage the use of mathematical language.
- Present "I noticed…" problems if students are reluctant to share or to highlight specific strategies you wish to emphasize.

5) Fluency Practice

- 10-12 min. Students continue Prodigi challenge until they earn a Bronze or higher.
- Students who earned a Bronze or higher on the Prodigi challenge play the Game challenge or continue the Prodigi to improve their medal.

6) Exit Ticket and Data Analysis

- (Optional) Students submit the Exit Ticket.
- Teacher reviews students' data to decide whether students need review or are ready to move forward.

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Key Points for Students

Progression of Learning

Vocabulary

Common Errors

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Knowledge Building:

Fluency Practice:

Extension: Direct students to play Recommended challenges.

1) Lesson Prep

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4) Mathematics Talk or Mini Lesson

5) Fluency Practice

6) Exit Ticket and Data Analysis

Exit Ticket

Name_____ Period _____ Date _____

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Exit Ticket

Name_____ Period _____ Date _____

Name_____ Date_____ Class/Period_____

1. **The learning intention for this challenge is:**

   _____

2. **Circle your goal for this challenge:**

   Bronze Medal - Answer most of the HARD questions correctly.

   Silver Medal – Answer most of the MEDIUM questions correctly.

   Gold medal – Answer all of the EXTREME questions correctly.

3. **Play the Prodigi challenge.** If you haven't earned a medal yet, play at least 2 more times.

4. **After each time you play,** review incorrect answers (red blocks) and the ones you used a FREE SOLVE to see the way to find the answer.

5. **In the table below,** copy the questions you answered incorrectly and show the correct way to work it out. Explain how your thinking changed and if you still need help.

6. **After 3 plays, what was the highest medal you earned?**_____

Copy the question you answered incorrectly and show how to solve using words, pictures, diagrams, or mathematics.	How has your thinking about this problem changed? What do you notice and wonder?

Copy the question you answered incorrectly and show how to solve using words, pictures, diagrams, or mathematics.	How has your thinking about this problem changed? What do you notice and wonder?

Name_____ Date_____ Class/Period_____

1. My learning intention for this Game challenge is:

_____

2. Circle your goal for this challenge.


Bronze


Silver


Gold

3. What is the highest medal you earned?_____

1) Write some examples of the types of problems that stretched your thinking.	2) How did you approach the problems that stretched your thinking?
3) How did the problems in this game connect to other types of mathematics that you know?	4) Write or describe some of the problems that you need extra help solving.