**MSDE Mathematics Lesson Seed**

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| **Domain**Reasoning with Equations and Inequalities **Cluster Statement**Understand solving equations as a process of reasoning and explain the reasoning**Standard****A.REI.2** Solve simple rational equations in one variable, and give examples showing how extraneous solutions may arise. |
| **Purpose/Big Idea:**The activity in this lesson seed provides a novel way to provide practice in solving rational equations algebraically. Some of the problems have extraneous solutions. Students will need to apply their knowledge of extraneous solutions to successfully build the octahedron.This activity adheres to UDL Principle II Multiple Means of Expression in that it gives students another option for expressing what they know. |
| **Materials:*** Worksheet (see attached)
* Scissors
* glue
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| **Description of how to use the activity:**1. Make a copy of the octahedron worksheets found on pages 2 & 3 and distribute to each student/group in the class. Suggestion: Copies should be made on cardstock.
2. Have students solve each problem and write the number of the problem on the flap that has the correct solution(s).
3. Have students cut out the circles.
4. Fold the flaps.
5. Glue the flap containing the problem to the flap containing the correct solution.
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| **Guiding Questions:**N/A |



