Horrendous Soup – A Metric Conversion Game

Subject: Mathematics

Grade Level: 4-5

Objective: Horrendous Soup is a fun game in which students have to make a recipe for the most disgusting soup they can imagine. Students progress through the game by adding ingredients to the soup. Some of the ingredients are measured in capacity, some are measured in mass, and some are measured in distance (for example, the recipe might call for a certain amount of millimeters of toothpaste or tree branch). Given this is a bit far-fetched, but still a perfect way to reinforce metric conversion skills. To successfully print out the recipe, students must demonstrate the ability to convert the amounts of ingredients to other metric units. For example, liters to milliliters and vice versa, grams to milligrams and vice versa, and millimeters to centimeters to meters.

Common Core Standards:

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
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<tbody>
<tr>
<td>4.MD.1</td>
<td>Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit.</td>
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<tr>
<td>5.MD.1</td>
<td>Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.</td>
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</tbody>
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Warm-Up Activities:

Before students play Horrendous Soup, they can learn the dynamics of the game by visiting my Picture-based Math exercises for Horrendous Soup at

http://mrnussbaum.com/horrendous-soup-practice/


Both of these exercises are similar with different examples.

For more formal practice, try my standardized test simulations at:

http://mrnussbaum.com/metric_capacity/

http://mrnussbaum.com/metric_distance/ (non-ipad)

http://mrnussbaum.com/metric-conversions-distance (iPad-compatible)
**Main Activity:**

Students should watch the Horrendous Soup instructional video before playing the game. The video can be accessed at [http://mrnussbaum.com/soup/](http://mrnussbaum.com/soup/)

After watching the game, students can begin playing. Encourage them to make the most disgusting soup possible. After they add their ingredients, they can use their conversion skills to complete the recipe.


For the iPad/Tablet: [http://mrnussbaum.com/horrendous-soup-ipad.html](http://mrnussbaum.com/horrendous-soup-ipad.html)

**Assessment:**

To assess metric conversion skills using Horrendous Soup, either of the following print outs can be used:
