## **DROP IN THE BUCKET**

## **Activity:**

- 1. The 1 measuring cup (8 oz) represents all water on Earth. Where is most of the water found on the planet? It is 97% of Earth's water!
- 2. Predict- The remaining 3% is the amount of fresh water on Earth. Where do you think most of the fresh water is found on Earth?

  Hint: 80% of fresh water on Earth is in this state of matter.
- 3. Predict- Unfortunately, people still can't get or use most of this water. Why do you think this might be?
  Where do you think this water is located?
- 4. Predict- Where do you think most of the remaining easily accessible fresh water is found on Earth?

Label Ocean & % water & draw your image of the ocean

- 97%\*8oz = 7.76 oz
- How much left? How can you calculate?
- 3%\*8 or 8-7.76 other? We will round to 0.25 oz.
- 8oz = 1 cup of water/1oz 6 tsp
- 0.25\*6tsp/1ox = 1.5 tsp
- Remove 1.5 tsp from cup and pour into the 1 TBSP.
- Shake salt into water remaining in cup and label 'salt water'

Label frozen water & 80% fresh water & draw your image.

- 80%\*1.5tsp = 1.2 tsp
- How much left? How can you calculate?
- 20%\*1.5 or 1.5-1.2 = 0.3 tsp
- Will round to nearest .25 tsp again.
- Take ¼ tsp. from tbsp. = non-frozen fresh water.
- Set aside remaining 1.25 tsp and label as frozen fresh water.

What % is non-frozen fresh water?

- 1 cup = 8 oz 1 oz = 6 tsp 8\*6 = 48 tsp
- 0.3 tsp/48 tsp \*100% = 0.6 % of Earth's water!

Water is deep underground to easily access or too polluted to use. Only 0.5% of remaining ¼ tsp is easily accessible fresh water humans can use.

Label 'non- potable fresh water' % and your image.

Dip your finger or tip of a pencil in the water to remove 1 drop. Let the drop fall on the table, in a cup or on a plate This represents the amount of water on Earth available for human needs = 0.003%!

Label 'potable fresh water' % and your image.