**Teacher Preparation**

**Preparing the Build Platform**

**Draw Build Lines**
- Mark a top line (1” from top) to provide students a space to pour the water.
- Mark a bottom line (1” from bottom) to provide space for water to drain.

**Draw Pour Mark**
- Draw an “X” at the top center of the tray. This gives students a mark to aim for when pouring the water.

**Water Line**
- Mark the original water line on the cups. You can also have students measure a specific amount with graduated cylinders.

**Cut a Drainage Opening**
- Cut a hole in the bottom center of the tray for the water to drain. This hole should be 1” across.

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**Materials – Challenges 1 and 2**

**For Each Student Group**
- 1 build platform (plate or tray)
- 1 or 2 clear plastic cups

**For Each Practice Station**
- 1 painters tray
- Ruler or graduated cylinder
- Water

**Build Materials**
- Paper
- Foil
- Clay
- Other

**Clay Recipe**
- 2 ½ cups of flour
- 1 cup of salt
- 1 cup of water
Mix together. Add more flour or water as needed.

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**Materials – Challenge 3 and 4**

**ADD Build Materials**
- Sand
- Waste Water (Mix water and sugar-free gelatin)
- Other
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