

Building Better Systems

Teacher Notes

Teacher Preparation

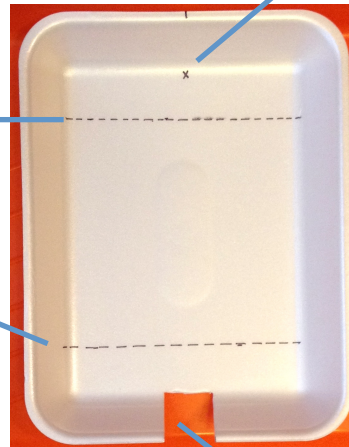
Preparing the Build Platform

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.

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.



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.

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.

Materials - Challenge 3 and 4

ADD Build Materials

- Sand
- Waste Water (Mix water and sugar-free gelatin)
- Other

Challenge 1 - Teacher Notes

What are possible discussion questions? How can I use talk to further learning?

Challenge 2 - Teacher Notes

What are possible discussion questions? How can I use talk to further learning?

Challenge 3 - Teacher Notes

What are possible discussion questions? How can I use talk to further learning?

Challenge 4 - Teacher Notes

What are possible discussion questions? How can I use talk to further learning?