

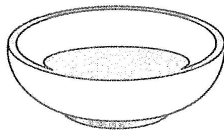
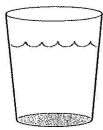
## LUMPY LIQUIDS



### BONUS ACTIVITY

☀ Is it a liquid or a solid? Can you turn a liquid into a solid by tapping on it?

What you need:



- Cornstarch
- Water
- Measuring cup
- Bowl

What you do:

- 1 Add  $\frac{1}{4}$  cup cornstarch into the bowl.
- 2 Add  $\frac{1}{4}$  cup water, stirring until cornstarch is just wet enough to look liquid.
- 3 Tap the mixture and see if it becomes hard. If not, add a bit more cornstarch.
- 4 Scoop the cornstarch mixture into your hand and work it into a ball.
- 5 Release the ball and let the mixture flow through your fingers.

**VISCOSITY** describes how easily a liquid flows. Water has a low viscosity, it flows easily. Molasses has a higher viscosity than water. The cornstarch mixture's viscosity depends on the pressure put on it. Other items like the cornstarch mixture are silly putty, ketchup and quick sand!

#### HOW TO ESCAPE QUICKSAND

Quicksand is like the cornstarch mixture – if you struggle to escape it hardens. If you relax, it turns to liquid and you sink. The best way to escape is to move very slowly toward solid ground. If you are entering quicksand, lay down to reduce the pressure you are creating. The best idea is to just walk around it!