



## SAMPLE QUIZ OR DISCUSSION QUESTIONS

Test your students' understanding of the scientific concepts featured in the **Water Science Kit** activities with an oral or written quiz. Just choose the appropriate amount and type of questions for your grade level.

**GRADES:**  
3-5 Students



GRADES 3-5 STUDENTS

NAME: \_\_\_\_\_

**1** Why did a dome of water form on top of the penny? What two scientific properties were the cause?

**2** How did gravity make the water spill over the edge of the penny?



GRADES 3-5 STUDENTS

NAME: \_\_\_\_\_

**3** Why did one side of the penny hold more water drops than the other?

**4** What invisible force kept the card against the test tube of water?



GRADES 3-5 STUDENTS

NAME: \_\_\_\_\_

5

How did cohesion, adhesion, and air pressure work together to keep the water from coming through the screen? Why were you able to push a toothpick through the screen?

6

How does a superabsorbent polymer change water from a liquid to a solid?



GRADES 3-5 STUDENTS

NAME: \_\_\_\_\_

7

Why do scientists say that polymer chains act like giant sponges?

8

What happens to a polymer molecule when water is absorbed?



GRADES 3-5 STUDENTS

NAME: \_\_\_\_\_

**9** How can the polymer gel be turned back into a powder? Be sure to use the scientific word in your explanation.

**10** Name some real world uses for water-absorbing polymers.

 **NOTES**





This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue lines spaced evenly across the page, typical of standard notebook paper. The lines are thin and light blue, set against a plain white background. There are no margins, text, or other markings on the page.

