Lesson: Capillary Action	Name:
Teacher:	Date:

1. Fill in the blank: The process that allows water to move up the paper towel is called _____.

   a) capillary action
   b) color
   c) absorption
   d) diffusion

2. Fill in the blank: The movement of colored water along the paper towel demonstrates the property of _____.

   a) diffusion
   b) color
   c) absorption
   d) capillary action

3. Which of the following explains how water moves up the paper towel?

   a) Photosynthesis
   b) Evaporation
   c) Capillary action
   d) Condensation

4. What would happen if a wax-coated paper towel was used instead?

   a) Colors would mix faster
   b) Nothing would change
   c) Water would not move
   d) Water would move faster

5. What scientific process causes the colors to blend in the empty cups?

   a) Evaporation
   b) Capillary action
   c) Filtration
   d) Diffusion

6. If the colored water did not move, which could be a possible reason?

   a) Paper towel is coated or non-absorbent
   b) Water was too cold
   c) Food coloring is non-toxic
   d) Cups were too far apart

7. Choose the statement that best defines capillary action.

   a) The movement of molecules from high to low concentration
   b) The change of liquid water into water vapor
   c) The process by which plants make their own food from sunlight
   d) The upward movement of liquid through narrow spaces due to adhesion and cohesion

8. Why must the paper towel touch both the colored and empty cups in the Walking Rainbow setup?

   a) It creates a path so water and dye can travel between cups
   b) It cools the water so colors stay bright
   c) It prevents evaporation from the colored cups
   d) It keeps the cups from tipping over

9. How does this experiment relate to how plants absorb water?

   a) It proves that roots create food coloring for leaves
   b) It shows how photosynthesis produces glucose in leaves
   c) It demonstrates how seeds dissolve in soil water
   d) It models capillary action moving water upward through plant stems

10. 

    Which property of water is being shown in the picture?

    a) Capillary Action
    b) High surface tension
    c) Water expands when frozen
    d) High capacity for heat

11. 

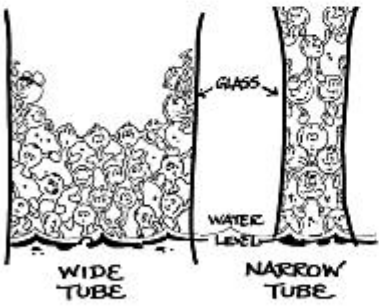
water travels through the paper towels in this experiment, demonstrating _____.

a) Magnetism
b) surface tension
c) Capillary action
d) Gravity

12. 

How does capillary action happen?

a) water is polar
b) it drags other water molecules up the paper
c) ALL OF THESE REASONS
d) it sticks to the paper

13. 

Look at the picture showing water moving up a thin glass tube. This happens when water moves up thin tubes like in plant stems or when paper soaks up water against gravity. This happens because of.....

a) cohesion
b) a combination of adhesion and cohesion
c) surface tension
d) adhesion

14. 

Properties that describe how a substance reacts with other substances are called?

a) Physical properties

b) Chemical properties

15. 

Capillary Action

a) the tendency of a liquid in a tube to rise

b) Tendency of a liquid in a tube to decrease

c) Tendency of a solid to dissolve

d) Tendency of a gas to condense

Answer Keys

1. a) capillary action
2. c) absorption
3. c) Capillary action
4. c) Water would not move
5. d) Diffusion
6. a) Paper towel is coated or non-absorbent
7. d) The upward movement of liquid through narrow spaces due to adhesion and cohesion
8. a) It creates a path so water and dye can travel between cups
9. d) It models capillary action moving water upward through plant stems
10. a) Capillary Action
11. c) Capillary action
12. c) ALL OF THESE REASONS
13. b) a combination of adhesion and cohesion
14. b) Chemical properties
15. a) the tendency of a liquid in a tube to rise