Changes in Matter

Grade 3 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. A weather report says: night 25°F, day 45°F. What will happen to a puddle over one night and day?

   it will freeze at night and melt during the day

   it will stay liquid the whole time

   it will stay frozen the whole time

   it will melt at night and freeze during the day

2. Which test shows whether a change can be undone?

   write down the name of the material

   try to change the material back and see if it returns

   weigh the material before the change only

   look at the material once after the change

3. Lightning burns part of a tree black. Can rain make the burned wood like new again?

   yes, after it freezes in winter

   yes, water reverses burning

   yes, once the wood cools down

   no, burning cannot be undone

4. Why does a wet road become icy after the sun sets in winter?

   the sun's heat makes ice form

   the water turns into water vapor

   the air cools below 32°F and the water freezes

   the road soaks up all the water

5. A glass of ice water gets drops on the outside on a humid day, but not on a very dry day. Why?

   dry air has more water vapor

   humid air has more water vapor to condense

   ice melts slower on humid days

   the glass leaks more when it is humid

6. Which list puts the water changes that make rain in order?

condensation → evaporation → rain

evaporation → condensation → rain

melting → evaporation → freezing

rain → freezing → evaporation

7. Ice is heated until it becomes water, then water vapor. What did adding heat do each time?

made more water

made the water disappear forever

changed the water to the next state

changed it back to ice

8. Hail grows bigger as wind blows it up and down in a storm cloud. What happens each time it goes up high, where it is very cold?

it turns into rain it melts completely more water freezes onto it it evaporates

9. Which change is like burning, because it cannot be undone?

snow melting in spring metal rusting in the rain dew drying in the morning

water freezing on a pond

10. A lake freezes every winter and melts every spring. What does this show?

a lake can freeze only once

melted water is lost forever

the lake turns into a gas each winter

freezing and melting can happen again and again

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Answer Key - Grade 3 Science Worksheet - Challenge Me

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