Changes in Matter

Grade 3 Science Worksheet - Challenge Me

PencilGo

Name _____ Date _____

Circle the answer.

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

   yes, once the wood cools down

   yes, water reverses burning

   no, burning cannot be undone

   yes, after it freezes in winter

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

   the sun's heat makes ice form

   the road soaks up all the water

   the air cools below 32°F and the water freezes

   the water turns into water vapor

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

   ice melts slower on humid days

   dry air has more water vapor

   humid air has more water vapor to condense

   the glass leaks more when it is humid

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

   rain → freezing → evaporation

   melting → evaporation → freezing

   evaporation → condensation → rain

   condensation → evaporation → rain

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

   made the water disappear forever

   changed it back to ice

   changed the water to the next state

   made more water

6. 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

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

snow melting in spring water freezing on a pond metal rusting in the rain dew drying in the morning

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

the lake turns into a gas each winter

a lake can freeze only once

melted water is lost forever

freezing and melting can happen again and again

9. Snow melts into water, and the water freezes again at night. Paper burns into ash. How are these changes different?

the water change can be undone; burning cannot

neither change can be undone

both changes can be undone

burning can be undone; the water change cannot

10. Two puddles are the same size. One is in the sun and one is in the shade. Which dries first, and why?

the sunny one, because heat speeds up evaporation

the shady one, because shade pulls water away

the sunny one, because sunlight freezes water

both, because they are the same size

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Answer Key - Grade 3 Science Worksheet - Challenge Me

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