Changes in Matter

Grade 3 Science Worksheet - Challenge Me

PencilGo

Name _____ Date _____

Circle the answer.

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

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

   metal rusting in the rain

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

   the lake turns into a gas each winter

   freezing and melting can happen again and again

   a lake can freeze only once

   melted water is lost forever

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

   burning can be undone; the water change cannot

   neither change can be undone

   both changes can be undone

   the water change can be undone; burning cannot

4. 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 sunlight freezes water

   the shady one, because shade pulls water away

   both, because they are the same size

   the sunny one, because heat speeds up evaporation

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

   it will melt at night and freeze during the day

   it will stay frozen the whole time

   it will stay liquid the whole time

   it will freeze at night and melt during the day

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

look at the material once after the change

try to change the material back and see if it returns

weigh the material before the change only

write down the name of the material

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

yes, once the wood cools down

yes, after it freezes in winter

no, burning cannot be undone

yes, water reverses burning

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

the road soaks up all the water

the sun's heat makes ice form

the air cools below 32°F and the water freezes

the water turns into water vapor

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

the glass leaks more when it is humid

dry air has more water vapor

ice melts slower on humid days

humid air has more water vapor to condense

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

rain → freezing → evaporation

melting → evaporation → freezing

evaporation → condensation → rain

condensation → evaporation → rain

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Answer Key - Grade 3 Science Worksheet - Challenge Me

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