# Changes in Matter

Grade 3 Science Worksheet - Challenge Me

PencilGo

**Name** _____ **Date** _____

Circle the answer.

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

   humid air has more water vapor to condense

   ice melts slower on humid days

   the glass leaks more when it is humid

   dry air has more water vapor

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

   melting → evaporation → freezing

   condensation → evaporation → rain

   rain → freezing → evaporation

   evaporation → condensation → rain

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

   made more water

   changed the water to the next state

   changed it back to ice

   made the water disappear forever

4. 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 evaporates  it melts completely  more water freezes onto it

5. 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

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

   a lake can freeze only once

   the lake turns into a gas each winter

   melted water is lost forever

   freezing and melting can happen again and again

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

- neither change can be undone
- burning can be undone; the water change cannot
- the water change can be undone; burning cannot
- both changes can be undone

8. 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
- both, because they are the same size
- the shady one, because shade pulls water away
- the sunny one, because heat speeds up evaporation

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

- it will stay frozen the whole time
- it will melt at night and freeze during the day
- it will freeze at night and melt during the day
- it will stay liquid the whole time

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

- weigh the material before the change only
- write down the name of the material
- try to change the material back and see if it returns
- look at the material once after the change

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Answer Key - Grade 3 Science Worksheet - Challenge Me

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