Changes in Matter

Grade 3 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

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

   changed it back to ice

   changed the water to the next state

   made more water

   made the water disappear forever

2. 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 it evaporates more water freezes onto it

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

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

   dew drying in the morning

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

   a lake can freeze only once

   freezing and melting can happen again and again

   the lake turns into a gas each winter

   melted water is lost forever

5. 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

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

   the shady one, because shade pulls water away

   both, because they are the same size

   the sunny one, because sunlight freezes water

   the sunny one, because heat speeds up evaporation

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

8. 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
- look at the material once after the change
- weigh the material before the change only

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

- no, burning cannot be undone
- yes, once the wood cools down
- yes, after it freezes in winter
- yes, water reverses burning

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

- the water turns into water vapor
- the air cools below 32°F and the water freezes
- the sun's heat makes ice form
- the road soaks up all the water

Scan to get this marked free. No screen time for your child.
Print it · do it in pencil · scan it · PencilGo picks the next sheet.

Changes in Matter

Answer Key - Grade 3 Science Worksheet - Challenge Me

Circle the answer.

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

changed it back to ice

changed the water to the next state

made more water

made the water disappear forever

2. 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 it evaporates

more water freezes onto it

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

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

dew drying in the morning

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

a lake can freeze only once

freezing and melting can happen again and again

the lake turns into a gas each winter

melted water is lost forever

5. 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

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

the shady one, because shade pulls water away

both, because they are the same size

the sunny one, because sunlight freezes water

the sunny one, because heat speeds up evaporation

7. 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 freeze at night and melt during the day

it will melt at night and freeze during the day

it will stay liquid the whole time

8. 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

look at the material once after the change

weigh the material before the change only

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

no, burning cannot be undone

yes, once the wood cools down

yes, after it freezes in winter

yes, water reverses burning

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

the water turns into water vapor

the air cools below 32°F and the water freezes

the sun's heat makes ice form

the road soaks up all the water