

Name: _____ Date: _____

THIRD GRADE – SCIENCE (SCIENCE3_4)

1. If you put a metal spoon in hot water, the spoon will

- A. melt.
 - B. dissolve.
 - C. get cold.
 - D. get hot.
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2. When one end of a steel rod is held in a flame, the other end also gets hot. This happens because steel

- A. makes its own heat.
 - B. is a good conductor of heat.
 - C. makes the flame hotter.
 - D. keeps cold away from the flame.
-

3. Which is a list of three forms of energy?

- A. weight, mass, density
- B. light, sound, heat
- C. volume, speed, pressure
- D. force, velocity, distance

4.

Use the picture below to answer this question.



A fishing pole helps lift a fish. The fishing pole is which type of machine?

- A. a lever
- B. a pulley
- C. a wheel and axle
- D. an inclined plane

5. Ice cream melts as you try to eat it. Which BEST tells why this happens?

- A. Your tongue gains heat from the ice cream.
- B. Your hand gains heat from the ice cream.
- C. The air gains heat from the ice cream.
- D. The ice cream gains heat from the air.

6. Which is a source of heat energy?

- A. rain
- B. fire
- C. wind
- D. water

7.

Use the picture below to answer this question.



This piano is being lifted using

- A. a lever.
- B. a pulley.
- C. an inclined plane.
- D. a wheel.

8. When the Sun shines, the water in puddles slowly disappears. Which BEST tells how the water in the puddles goes away?

- A. Animals drink all the water.
- B. The Sun's heat makes the water freeze.
- C. The Sun's heat makes the water evaporate.
- D. Cars and people splash all the water away.

9. Which is NOT used to make electricity?

- A. uranium
- B. coal
- C. water
- D. minerals

10. Heat, light, and electricity are all forms of

- A. atoms.
- B. energy.
- C. cells.
- D. motion.

11. Which gives the most heat and light to Earth?

- A. the Sun
- B. the Moon
- C. Mars
- D. volcanoes

12. Which is NOT a fossil fuel?

- A. oil
- B. wood
- C. natural gas
- D. coal

13. Jill shoots a basketball but it falls short of the hoop. Which should Jill do to make a score from the same place?

- A. use less force on the ball
- B. use more pull on the ball
- C. use more force on the ball
- D. use less energy on the ball

14. Bob is in the kitchen making dinner. Heating water will help him to

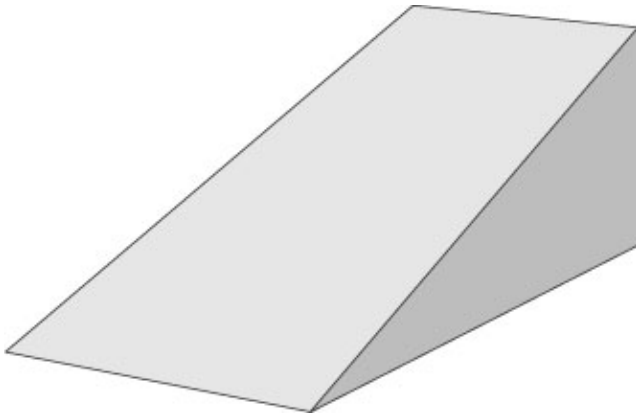
- A. cool the drinks.
- B. make ice cubes.
- C. cook noodles.
- D. clean the vegetables.

15. Which correctly tells how heat gets to the water in a metal pan placed on a hot burner?

- A. radiation from the water
- B. radiation from the burner
- C. conduction through the air
- D. conduction through the pan

16.

Use the picture below to answer this question.



A loading ramp is a simple machine called

- A. a lever.
- B. an inclined plane.
- C. a wheel and axle.
- D. a pulley.

17. Water can exist in three forms—as liquid (water), solid (ice), and gas (water vapor). Which tells what happens to water as it changes form?

- A. Liquid water gains heat to form a solid (ice).
- B. Liquid water loses heat to form a solid (ice).
- C. Solid water (ice) loses heat to form gas (water vapor).
- D. Water vapor (gas) gains heat to form liquid water.

18. The energy that melts ice into water is

- A. nuclear energy.
- B. sound energy.
- C. electrical energy.
- D. heat energy.

19. Solar energy comes from

- A. the Sun.
- B. tides.
- C. oil.
- D. fossils.





20. Which happens when you add heat to a glass of ice water?

- A. The ice melts.
- B. The ice freezes.
- C. The water freezes.
- D. The water melts.

21. Billy was pulling his wagon on the sidewalk. What should he do to keep the wagon moving?

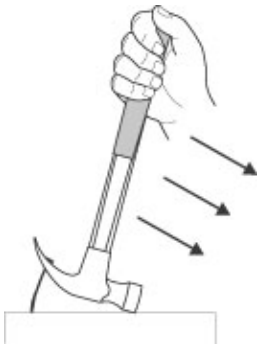
- A. Walk behind the wagon.
- B. Apply a force to the wagon.
- C. Put a weight in the wagon.
- D. Walk on the side of the wagon.

22. Playgrounds have many simple machines. Which is an inclined plane?

- A. A swing set with two swings and a stationary ring.
- B. A merry-go-round with a central wheel and multiple seats.
- C. A horizontal bar with two ladders on either side.
- D. A slide with a ramp and a ladder.

23.

Use the picture below to answer this question.



Jacob needs to pull down on a hammer to take a nail out of a piece of wood. Jacob is using the hammer as

- A. a lever.
- B. a pulley.
- C. a wheel and axle.
- D. an inclined plane.

24. It is easiest to push a box up which ramp?

- A. A diagram of a short, steep ramp. A small cube is at the bottom right end.
- B. A diagram of a medium-length ramp. A small cube is at the bottom right end.
- C. A diagram of a long, shallow ramp. A small cube is at the bottom right end.
- D. A diagram of a very long, very shallow ramp. A small cube is at the bottom right end.

25.

Use the picture below to answer this question.



The battery in a flashlight makes light by using

- A. electricity.
- B. heat.
- C. gravity.
- D. magnetism.

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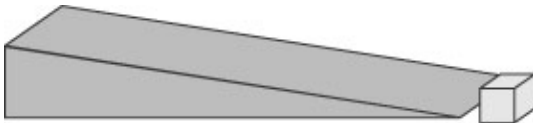
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(Answer Key)

1. get hot.
2. is a good conductor of heat.
3. light, sound, heat
4. a lever
5. The ice cream gains heat from the air.
6. fire
7. a pulley.
8. The Sun's heat makes the water evaporate.
9. minerals
10. energy.
11. the Sun
12. wood
13. use more force on the ball
14. cook noodles.
15. conduction through the pan
16. an inclined plane.
17. Liquid water loses heat to form a solid (ice).
18. heat energy.
19. the Sun.
20. The ice melts.
21. Apply a force to the wagon.
- 22.



23. a lever.
- 24.



25. electricity.