

Gr. 2 Science Exam Study Guide T3 Answer Key

1. Cameron is replacing a light bulb with the one shown.



Which motion should Cameron use to fit the base of the bulb into the light socket?

- a. pull
 - b. turn**
 - c. push
2. The boy is moving his wagon.



Is the boy using a pushing force or pulling force to move the wagon?

- a. pushing
- b. pulling**

3. Mike is going sledding.



Is Mike using a pushing force or a pulling force to move his sled?

- a. pushing
- b. pulling**

4. Lucy is moving a shopping cart.



Is Lucy using a pulling force or pushing force to move the cart?

- a. pulling
- b. pushing**

5. The boy kicked the soccer ball. The soccer ball moved forward.



Did the boy use a pulling force or pushing force to kick the ball?

- a. pulling
- b. pushing**

6. The moon _____ the sun's light.
- a. sees
 - b. shines
 - c. reflects**
 - d. watches
7. Light moves
- a. in a straight line**
 - b. in circles
 - c. zig-zag
8. _____ is a kind of energy you can see.
- a. Light**
 - b. Sound
 - c. Heat
9. Dylan plays the drum. He hits the top of the drum with the sticks. The top of the drum vibrates. What does the vibrating drum make?



- a. light
 - b. sound**
10. You use a flashlight to shine a beam of light at mirror. Which path will the light most likely follow?
- a. all of the light will pass through the mirror
 - b. some of the light will pass through the mirror
 - c. the mirror will change the direction of the light**
 - d. the mirror will block the light from passing through
11. You use a flashlight to shine a beam of light at a clear glass window. Which path will the light most likely follow?
- a. all of the light will pass through the glass**
 - b. some of the light will pass through the glass
 - c. the glass will change the direction of the light
 - d. the glass will block the light from passing through

12. Lyla is playing the guitar. She strums the strings of the guitar while she plays a song. What happens when Lyla strums the guitar strings?

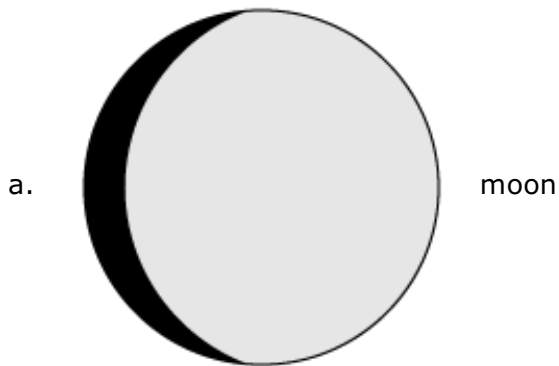


- a. **the strings vibrate**
b. the strings light up
13. The Sun is Earth's main source of light.
14. The sun gives us _____.
- a. shade and light
b. heat and darkness
c. **heat and light**
d. hot and cold
15. Avery walks into her bedroom. It is dark and she cannot see anything. She flips on the light switch. A lamp turns on. She can now see her bed and everything else in her room.

Which object is a light source?

- a. bed
b. **lamp**
c. light switch
16. Which of the following gives off heat AND light?
- a. the Sun
b. a fire
c. a light bulb
d. **all of the above**

17. Which gives off its own light?



18. What are some PROPERTIES of a basketball? List as many as you can!

Round, bounces, orange, black lines, has writing, light in weight, bumpy texture...

19. Which objects are sorted by weight?

a. blue pencils and green markers

b. small books and large books

c. *light toys and heavy toys*

20. Miguel is camping. At night, he goes into his tent and turns on a flashlight. Miguel can see his sleeping bag in the tent. Why can Miguel see his sleeping bag?



a. The sleeping bag gives off its own light.

b. *The flashlight illuminates the sleeping bag.*

21. Nate and Elena are sorting rocks into groups. The table describes each group of rocks.

Group	Description
A	white to light tan
B	reddish to light brown
C	dark brown to black

What property are Nate and Elena using to sort the rocks?

- a. **color**
- b. texture
- c. flexibility
- d. hardness

22. You have a feather and a brick. To learn if weight affects how fast objects fall, what can you ask?

- a. Do soft or hard objects fall faster?
- b. **Do light or heavy objects fall faster?**
- c. Do large or small objects fall faster?

23. The sun's rays can hurt your eyes.

- a. **True**
- b. False

24. Which word describes an apple's weight?



- a. **light**
- b. heavy

25. The sun's rays are good for your eyes.

- a. True
- b. **False**

26. When light is pointed at a mirror it

- a. makes a rainbow.
- b. **reflects.**
- c. goes through it.

27. Why does the moon light up at night?

- a. **Sunlight hits it.**
- b. It burns like a fire.
- c. It is lit by lights on Earth.

28. The box of books was so heavy I could barely lift it.

HEAVY means:

- a. light
- b. a lot of weight**
- c. dark
- d. easy to move

29. What would it be like on Earth without the Sun?

- a. cold and bright
- b. cold and dark**
- c. light and cold
- d. warm and bright

30. Name some materials that a home can be made out of.

31. Hard, definite shape, color, and size, are a few _____ of a solid.

- a. matter
- b. solid
- c. liquid
- d. properties**

32. Which property best describes the mittens?



- a. hard
- b. soft**

33. Which property best describes the basketball?



- a. bouncy**
- b. breakable

34. Which property best describes the fireworks?



- a. loud**
- b. quiet

35. Which property best describes the snowman?



- a. hot
- b. cold**

36. Which TWO properties best describe the corn?



- a. sweet**
- b. sticky
- c. bumpy**
- d. stretchy

37. Which TWO properties best describe the eggs?



- a. soft
- b. smooth**
- c. bendable
- d. breakable**

38. Which property best describes the lemon?



- a. sour**
- b. sweet

39. The golf ball is bumpy, what property is this?

- a. Texture**
- b. Size
- c. Weight
- d. Shape

40. Which of the following is not a sense?
- a. sight
 - b. smell
 - c. reading**
 - d. hearing
41. Which one of the following is NOT one of the five senses?
- a. Sight
 - b. Hearing
 - c. Breathing**
 - d. Tasting
42. What is the most important sense for a cat when hunting its prey?
- a. hearing**
 - b. sight
 - c. smell
43. Temperature is property of matter that can be observed by the sense of
- a. sight
 - b. hearing
 - c. touch**
44. When you use your senses to find out about something you are
- a. classifying
 - b. data
 - c. observing**
45. You are listening to music. Which sense are you using?
- a. smelling
 - b. touching
 - c. tasting
 - d. hearing**
 - e. seeing

46. Pick the word that makes sense in the blank.

The dog was brown and white. His name was Bob. The dog was _____. It made him easy to pick up.

- a. loud
 - b. large
 - c. small**
47. When you _____ things, you are using you are using your 5 senses to find out more about them.
- a. predict
 - b. data
 - c. observe**

48. To conserve water, we need to _____.
- a. leave the water running
 - b. waste water
 - c. water the lawn everyday
 - d. save water**
49. Is energy that lets us see
- a. heat energy
 - b. electricity
 - c. light energy**
 - d. wind energy
50. What is one way we can protect our Earth?
- answers will vary - recycle, drive less, conserve open spaces**
51. Something found in nature that people can use, such as air, water, and land.
- a. technology
 - b. conservation
 - c. natural resource**
 - d. fuel
52. When a boat lifts a sail, it is using _____ to push it through the water.
- a. Water Energy
 - b. Solar Energy
 - c. Electric Energy
 - d. Wind Energy**
53. To protect our supply of something by using less or taking care of it
- a. conserve**
 - b. pollution
 - c. global
54. The Earth's greatest source of energy is the
- a. Sun**
 - b. water
 - c. wind
 - d. people
55. Collects energy from the sun.
- a. Wind mills
 - b. Solar panels**
 - c. Water dams
 - d. Toasters

56. How loud or soft a sound is
- a. pitch
 - b. volume**
 - c. vibrate
 - d. energy
57. Which item does NOT use energy?
- a. an ipod
 - b. a computer
 - c. a white board**
58. Which one of the following is a source of heat energy?
- a. sun
 - b. toaster
 - c. stove
 - d. all**
59. Which property is the same for the scissors and screw?



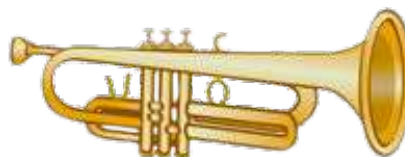
- a. sharp**
- b. stretchy

60. Instruments make sound when they are moved, or vibrated, in special ways. Look at each instrument and decide if it makes sound by blowing, beating, or strumming.

Circle instruments that you would blow.

Draw an X on instruments that you would strum.

Draw a square around instruments you would beat.



Blow - Saxophone, Trumpet, Flute

Strum - Guitar, Lute, Electric Guitar

Beat - Bass Drum, Timpani, Xylophone

61. Which object is long and thin?

a.



b.



c.



d.



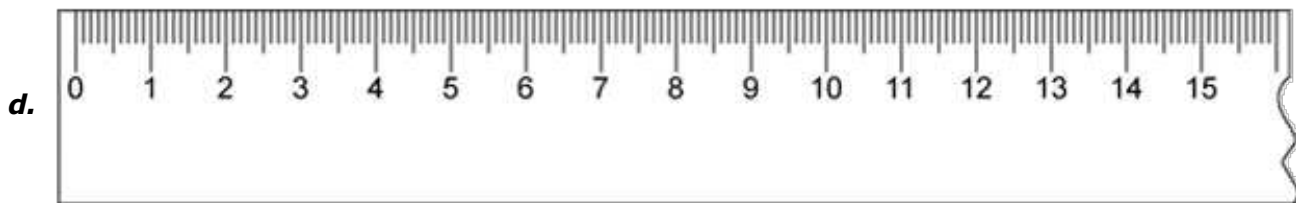
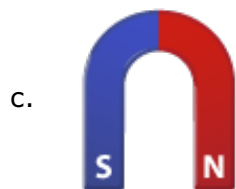
62. Vibrations that travel through the air, a solid, or a liquid that reach a person's ear is called

- a. pitch
- b. sound**
- c. ear
- d. volume

63. Which one is a soft sound?

- a. shout
- b. whisper**

64. Gabby needs to measure the length of a leaf for science class. Which tool should she use?



65. a tool or device for cutting, typically a thin blade of metal with a series of sharp teeth

- a. pillow
- b. bookcase
- c. spoon
- d. saw**

66. Which tool can you use to compare how heavy things are?

- a. thermometer
- b. balance**
- c. cup
- d. magnifying glass

67. What is not a natural resource?

- a. land
- b. water
- c. plastic**
- d. air

68. A natural resource is a resource that comes from nature.

- a. True**
- b. False

69. Which of these is a natural resource?

- a. toys
- b. car
- c. tree**