Name: Date:

_____ _____

FIFTH GRADE-SCIENCE (SCIENCE5_5)

1. Which of the following combine to form a molecule?
   A. atoms
   B. neutrons
   C. mixtures
   D. protons

2. Which substance is made by people?
   A. wood
   B. oxygen
   C. copper
   D. plastic

3.
Use the picture below to answer this question.

To increase the potential energy of the soccer ball, the boy should

A. raise it.
B. drop it.
C. hold it.
D. lower it.

---

4. What force pulls things toward the center of Earth?

A. friction
B. gravity
C. magnetism
D. electricity

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5. If you dissolved a lot of salt in some water in a large flat dish and put the dish in bright sunlight on a hot day, what would be left in the dish after a long time?

A. dry salt
B. water with no salt
C. the same salty water as before
D. nothing

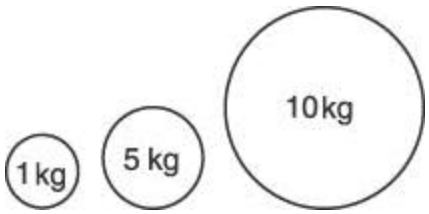
---

6. A car traveling at the same speed takes 4 hours to travel 200 miles. At which speed was the car traveling?

A. 200 miles per hour
B. 55 miles per hour
C. 50 miles per hour
D. 20 miles per hour

7.

Use the diagram below to answer this question.



If all three balls are dropped from the same height at exactly the same time, what will happen?

A. The 1-kilogram ball will hit the ground first.
B. The 5-kilogram ball will hit the ground first.
C. The 10-kilogram ball will hit the ground first.
D. All three balls will hit the ground at the same time.

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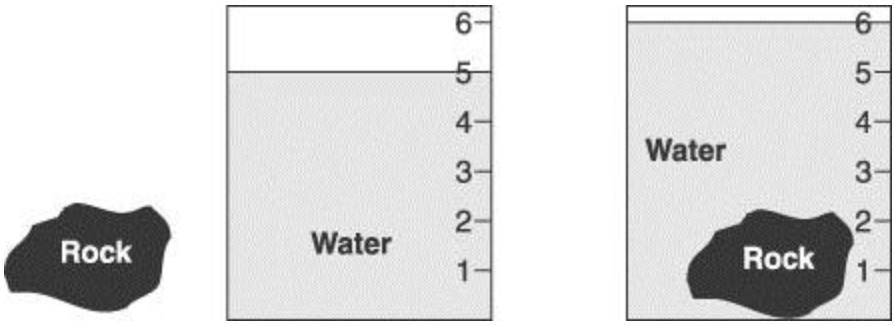
8. The force that keeps a communications satellite in orbit around Earth is
    A. gravity.
    B. friction.
    C. magnetism.
    D. electricity.

---

9. How are elements arranged on the periodic table?
    A. randomly
    B. in the order they were discovered
    C. with elements of similar atomic properties
    D. in alphabetical order so they are easier to find

10.
Use the pictures below to answer this question.



A rock is put into a pail that has some water in it. Before the rock is put into the pail, the water is at the 5-liter line. After the rock is added, the water rises to the 6-liter line. The space taken up by the rock is
    A. 1 liter.
    B. 5 liters.
    C. 6 liters.
    D. 11 liters.

11.
Use the table below to answer this question.

1 H 1.008																	2 He 4.003
3 Li 6.94	4 Be 9.01											5 B 10.81	6 C 12.01	7 N 14.01	8 O 16.00	9 F 19.00	10 Ne 20.18
11 Na 22.99	12 Mg 24.31											13 Al 26.98	14 Si 28.09	15 P 30.97	16 S 32.06	17 Cl 35.45	18 Ar 39.95
19 K 39.10	20 Ca 40.08	21 Sc 44.96	22 Ti 47.90	23 V 50.94	24 Cr 52.00	25 Mn 54.94	26 Fe 55.85	27 Co 58.93	28 Ni 58.70	29 Cu 63.55	30 Zn 65.38	31 Ga 69.72	32 Ge 72.59	33 As 74.92	34 Se 78.96	35 Br 79.90	36 Kr 83.80
37 Rb 85.47	38 Sr 87.62	39 Y 88.91	40 Zr 91.22	41 Nb 92.91	42 Mo 95.94	43 Tc (97)	44 Ru 101.07	45 Rh 102.91	46 Pd 106.4	47 Ag 107.87	48 Cd 112.41	49 In 114.82	50 Sn 118.69	51 Sb 121.75	52 Te 127.60	53 I 126.90	54 Xe 131.30
55 Cs 132.91	56 Ba 137.33	57 *La 138.91	72 Hf 178.49	73 Ta 180.95	74 W 183.85	75 Re 186.21	76 Os 190.2	77 Ir 192.22	78 Pt 195.09	79 Au 196.97	80 Hg 200.59	81 Tl 204.37	82 Pb 207.2	83 Bi 208.98	84 Po (209)	85 At (210)	86 Rn (222)
87 Fr (223)	88 Ra 226.03	89 **Ac (227)	104 Unq (261)	105 Unp (262)	106 Unh (263)	107 Uns (262)											

*Lanthanide Series

58 Ce 140.12	59 Pr 140.91	60 Nd 144.24	61 Pm (147)	62 Sm 150.4	63 Eu 151.96	64 Gd 157.25	65 Tb 158.93	66 Dy 162.50	67 Ho 164.93	68 Er 167.26	69 Tm 168.93	70 Yb 173.04	71 Lu 174.97

**Actinide Series

90 Th 232.04	91 Pa 231.04	92 U 238.03	93 Np 237.05	94 Pu (244)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (254)	100 Fm (257)	101 Md (258)	102 No (259)	103 Lr (260)

All of the elements we know are shown in this table. This table is called

A. the molecular table.
B. the atomic theory table.
C. the matter table.
D. the periodic table.

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12. Which of the following is NOT a force?

A. push
B. pull
C. gravity
D. sunlight

13.

Use the picture below to answer this question.

A glass of soft drink with ice has bubbles sticking to the inside of the glass. This example includes all three states of matter. Which part of the example is a gas?

A. the ice
B. the bubbles
C. the soft drink
D. the glass

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14. A different chemical substance is formed when
A. a cloth is cut.
B. a cup breaks.
C. a candle burns.
D. a piece of chalk falls apart.

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15. William put a sugar cube in a cup of hot water. After a period of time, what happened to the sugar cube?
A. It dissolved.
B. It stayed on the bottom of the cup.
C. It evaporated.
D. It changed color.

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16. The Sun's gravity holds each planet in its orbit. Pluto is farther away from the Sun than Earth is. How does the effect of the Sun's gravity on Pluto compare with the effect of the Sun's gravity on Earth?
A. The Sun has the same gravitational pull on all planets that are in orbit.
B. The Sun has more gravitational pull on Pluto because it is smaller.
C. The Sun has less gravitational pull on Earth because it is closer.
D. The Sun has less gravitational pull on Pluto because it is farther away.

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17. What force attracts an object to Earth?
A. electricity
B. gravity
C. mechanical energy
D. solar energy

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18. A crumpled sheet of paper will fall to the ground faster than an uncrumpled sheet because crumpling the paper
A. causes it to have less mass.
B. causes it to have less air resistance.
C. changes the chemical state of the paper.
D. adds potential energy.

---

19. Evaporation is water changing from a
A. liquid to a solid.
B. solid to a liquid.
C. liquid to a gas.

D. gas to a liquid.

20.

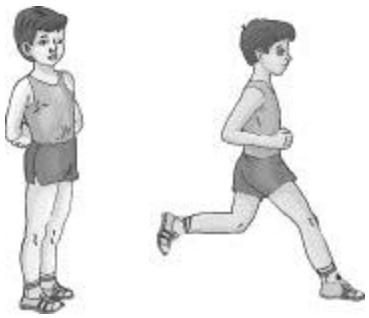
Use the picture below to answer this question.

What can you show by boiling a pan of water?

A. how matter changes shape
B. how gravity makes things heavy
C. how light is made of different colors
D. how sound is made

21.

Use the picture below to answer this question.



Harry was standing. Now he is running. When he is running he has more

A. potential energy.
B. kinetic energy.
C. mass.
D. gravity.

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22. A car traveling from Jesup to Macon has an average velocity of 45 miles per hour.

The distance between these two cities is 149 miles. Approximately how long will it take the car to complete the trip?

A. 1.5 hours
B. 2.0 hours
C. 3.0 hours
D. 5.0 hours

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23. Which is an example of a chemical change?

A. paper being burned
B. metal being melted
C. a board being cut in half
D. water being boiled

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24. Three blocks exactly the same size were dropped into three different tanks of water. The pictures below show the location of the blocks in the tanks.

Which statement is true about the blocks?

A. Block A weighs the most.
B. Blocks A, B, and C all weigh the same.
C. Only blocks A and B weigh the same.
D. Blocks A, B, and C all weigh different amounts.

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25. Which of the following BEST describes "distance"?

A. a large flat space
B. how long it takes for something to happen
C. a long way to go
D. how far it is between two points

FIFTH GRADE-SCIENCE(SCIENCE5_5)

(Answer Key)

1. atoms
2. plastic
3. raise it.

4. gravity
5. dry salt
6. 50 miles per hour
7. All three balls will hit the ground at the same time.
8. gravity.
9. with elements of similar atomic properties
10. 1 liter.
11. the periodic table.
12. sunlight
13. the bubbles
14. a candle burns.
15. It dissolved.
16. The Sun has less gravitational pull on Pluto because it is farther away.
17. gravity
18. causes it to have less air resistance.
19. liquid to a gas.
20. how matter changes shape
21. kinetic energy.
22. 3.0 hours
23. paper being burned
24. Blocks A, B, and C all weigh different amounts.
25. how far it is between two points