

Name: _____

Class: _____

1 Complete the text.

There are three states of matter: liquid, solid and gas. Water's normal state is and it can be (6) ______ so its

(1) ______ In this state it has volume decreases. If the temperature goes a (2) _____ volume but an below 0 °C, water freezes and its state changes

(3) _____ shape. If water gets warmer, it starts to (4) _____. In this form its

- 2 Choose the correct words to complete the sentences.
 - **a.** In solids, particles *vibrate / can't move*.
 - **b.** In *liquids / gases* particles move randomly.
 - **c.** When matter is heated, particles move faster / slower.
 - **d.** Fermentation and combustion are reversible / irreversible processes.
 - **e.** When atoms join together, they are called *particles / molecules*.
 - f. A mixture of two or more elements is called an alloy / a heterogenous mixture.

3 Complete the table.

property	force	definition
volume	Х	how much space matter occupies
Х	magnetism	
		the scratch resistance of a solid
solubility	Х	
Х	gravity	
		ability to transfer heat
		ability to float
density	х	

TERM (3)

4 Circle the odd one out.

a. hardness solubility evaporation mass

b. magnetism friction gravity mass

c. light buoyancy sound thermal energy

d. fossil fuels biomass wind water

e. pulley engine lever inclined plane

5 Write one material which:

a. acts as a conductor: _____

b. acts as an insulator: _____

c. lets light through: _____

d. doesn't let light through: _____

6 Complete the sentences.

a. Snow is white because _____

b. Rainbows are caused by _____

c. When light hits an object, the object _______.

d. Sound can't travel through a vacuum because ______.

e. Thermal energy is energy that flows from _____

(7) Choose the words to complete the sentences.

a. Density / Solubility is the ability of a substance to dissolve in another substance.

b. We use a *filter / sieve* to separate solids of different sizes.

c. Friction / Gravity is the force that exists when two objects rub against each other.

d. Iron / Steel is one of the most common alloys.

8 Label the methods of separating mixtures.







TERM 3

9 Answer	the	questions.
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a. What is the main advantage of renewable energy sources?

b. Name two disadvantages of renewable energy sources.

c. Name two fossil fuels and say why they are bad for the environment.

d. Why is radioactivity bad for humans?

(10) All of these sentences are false. Correct them.

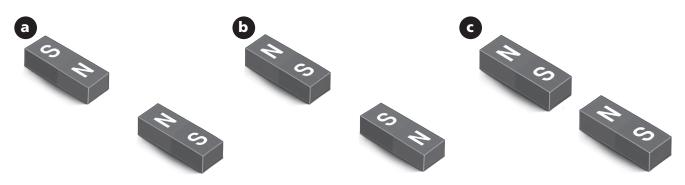
a. Objects that contain more negative charges than positive have a positive charge.

b. Objects with opposite charges repel each other.

c. A moving electrical charge is known as static electricity.

d. Balloons sticking to your hair is an example of electrical current.

10 Look at the magnets. Do they attract or repel each other? Draw arrows.



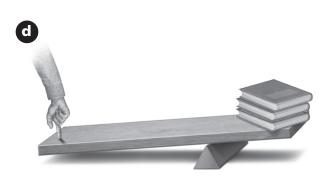
12 Label the machines.

a











- (13) Answer the questions.
 - a. Name two machines which need batteries.
 - **b.** Name two machines which need energy from people.
 - c. Name two machines which need electricity.
 - **d.** Name three machines that you use at home.
 - **e.** Name three inventions which changed the world.
 - f. Look at your answer for Question e. Which area of our lives did the inventions improve?