(8th) Study guide General science final Test Name_____ 1--Circle the letter of the answer that correctly completes each statement. 1. A _____ is formed when two or more elements join together . a. mixture b. compound c. reaction 2. Temperature and humidity are the same throughout a(n) ______. a. ozone layer b. front c. air mass 3. Mold and mushrooms are examples of . a. fungi b. protists c. monerans 4. A _____ shows the feeding order of organisms in an ecosystem. a. succession b. food chain c. pyramid of numbers 5. Sound is produced when matter _____. a. rotates b. dissolves c. vibrates 6. The central part of an atom is called the _____. a. proton b. neutron c. nucleus 7. Magma that cools and hardens forms _____ rock. a. igneous b. sedimentary c. metamorphic 8. The _____ is the continuous movement of water between the atmosphere and Earth's surface. a. water table b. water cycle c. groundwater 9. The joining of an egg cell and a sperm cell is called _____. a. ovulation b. fertilization c. reproduction 10. Gravity is the force of attraction between any two objects that have

a. mass b. force c. volume

2-Match each property in Column A with its correct measurement unit in Column B. Write the letter of the answer on the line.

Cotuinin	A
	1. volume of a liquid
	2. force
	4. speed
	5. work
	6. temperature
	7. volume of a solid
	8. electromotive force
	9. length
	10. Mass
Column	В
a. meter	
b. degree	
c. volt	
d. newtoi	า
e. gram	
f. cubic m	neter
g. square	meter
h. liter	
i. kilomet	ers per hour
j. joule	

Part D Write the answer to each problem.

- 1. What is the volume of a box that measures 15 cm long, 20 cm wide, and 25 cm high?
- 2. How far can a car travel in 41/2 hours if its average speed is 90 kilometers per hour?

3. A woman pushed a crate 15 meters using a force of 22 newtons. How much work did she do?
4. What is the difference between an element and a compound?
5 Name the three main types of rocks and describe how each type is formed.
6. What is the difference between an area's weather and its climate?
7. List eight forms of energy (6)
Part E. In the space below, draw a diagram showing the parts of an atom. Label each part with its name.
3. Complete the diagram below to show the sequence of feeding relationships in a food chain.Use the terms herbivore, carnivore, and producer in the first line of the diagram.Then tell which order of consumer each organism is.

Part F Write a short answer for each question.

1. Why is less food energy available at each higher level of a food chain

Part F

Follow the directions for each item below. 1. In the space below, draw a simple diagram showing the water cycle. Include labels that name and describe each step

2	is anything that has mass and takes up space.
3. In a	circuit, electric current flows through a single pathway.
4. A group of s	similar cells that work together are called a(n)
5. A synapse i	s a tiny gap between
6. Seasons ar	e caused by the tilt of Earth's
7. Organisms	are classified into five
8. Photons are	e small bundles of energy that make up
9. Molds and	casts are two forms of
10. The water	cycle is powered by the
Part G	
1. Body parts	that are similar in related organisms are called structures
a. evolution b	o. vestigial c. homologous
2	_ tissue carries materials throughout a plant.
a. Vascular b	. Stem c. Rhizoid
3. The line of	0° longitude is the
a. equator b.	axis c. prime meridian

4	is the ability to do work.	
a. Effort l	o. Energy c. Force	
5. The property that is least helpful in identifying a mineral is		
a. hardne	ess b. luster c. color	
Part B Re	ad each sentence. Write T if the statement is true or F if it is false.	
	1 . A rock is a natural solid material made of one or more minerals.	
	2. Work is what happens when a force makes something move.	
	3. The smallest particle of each kind of matter is a molecule.	
	4. Photosynthesis takes place in a plant's chloroplasts.	
	5. Sound waves are visible.	
	6. A single point on Earth's surface can be found at intersecting lines of	
latitude a	nd longitude.	
	7. Mass is anything that has weight and takes up space.	
	8. The atmosphere is the layer of gases that surrounds Earth.	
	9. Asexual reproduction involves two parents.	
	10. Earth's axis is an imaginary line joining the hemispheres	