TEST NAME: Williams Montessori Mr Dougs PT, PCC & ECM mini assessment

TEST ID: 1942279

GRADE: 08 - Eighth Grade

SUBJECT: Life and Physical Sciences

TEST CATEGORY: Shared Classroom Assessments

ne table below show	s several minerals fou	nd in Earth's crus	st.
		Ohamiasi	1
	Mineral	Chemical Composition	
	graphite	С	
	quartz	SiO ₂	
	calcite	CaCO ₃	
	hematite	Fe ₂ O ₃	
eased on the informa	tion in the table, which	h mineral is also a	– n eleme
graphite	ion in the table, which	ar innier ar 19 arso a	in cicinc
quartz			
calcite			

2. Which term correctly describes all of the following materials?

salt water, vinegar, bronze, air, beach sand

3. What is the smallest unit of an element that still retains the element's properties?

compounds

B. mixturesC. solutionsD. elements

A a protonB. a crystalC. an atomD. a molecule

4.	Which substance is composed of only one type of atom?				
	A.	water			
	B.	gold			
	C.	salt			
	D.	sugar			

- 5. Which pair of elements has the *most* similar properties?
 - A Li and B
 - B. I and Ca
 - C. K and He
 - D. N and P
- 6. Which characteristic of an element determines its placement in the periodic table?
 - A mass
 - B. size
 - C. number of neutrons
 - D. number of protons
- 7. Which statement **best** explains how periods on the periodic table are organized?
 - A increasing atomic number from left to right
 - B. increasing number of neutrons from left to right
 - C. decreasing number of electrons from left to right
 - D. decreasing atomic mass number from left to right
- 8. A student kept a notebook during an investigation. Which recorded observation was MOST likely a physical change?
 - A The solution was heated for two minutes until it boiled.
 - B. A solid formed when two liquids were mixed together.
 - C. Two solutions were mixed and the resulting solution felt hot.
 - D. The color of two mixed solutions changed from clear to white.

9. Which is the BEST explanation of why heat is released when wood burns?

- A Burning creates energy by increasing particle motion.
- B. Burning destroys matter and creates energy from it.
- C. Burning releases energy stored in chemical bonds.
- D. Burning causes convection currents which create heat energy.

10. When iron combines with oxygen in a moist environment, rust forms because of a

- A chemical reaction.
- B. physical reaction.
- C. change in density.
- D. change in temperature.