JAG01 Unit 4 Rocks II

Task 1 The Rock Cycle

Use the expressions below to sketch and describe the rock cycle.

IGNEOUS	METAMORPHIC	SEDIMENTARY	SEDIMENT	MAGMA
weathering	cooling	heat and pressure	crystallisation	n deposition
cementation	melting	solidification	uplift	burial

Task 2 Video: Rock and Minerals: Identifying Types of Rocks

(https://www.youtube.com/watch?v=tQUe9C40NEE)

Watch and take notes on rock identification. Are there any hard and fast rules?

Watch again and fill in the gaps with one word:

- 1. Sedimentary rocks come from elements of pre-existing rocks, either actual or dissolved materials.
- 2. It's oftentimes difficult to the type of rock.
- 3. You have a, more compact form in igneous and metamorphic rocks.
- 4. Crystals are a good of igneous rocks.
- 5. Some igneous rocks are very like this basalt.
- 6. You will sometimes see of mineral grain in metamorphic rock.
- 7. There are of fine clay minerals in shale.
- 8. If you put a little drop of acid on limestone, you'll get bubbling.

Task 3 Vocabulary: Properties of materials

Match antonyms:	
brittle	combustible
transparent	inert
heat-resistant	rigid
smooth	heavy
reactive	opaque
light	rough

Task 4 Reading

Using minerals and rocks

Metals are widely used today. Steel, which is made mostly from iron, has great strength. Tall buildings, long bridges, ocean liners, jet planes and cars depend on steel, aluminium and other metals for their strength. Most metals have many uses. Copper and aluminium, for example, are made into wire (3)

Any mineral or rock (6) is called an ore. Both metals and non-metals are obtained from ores. Ores are taken from the ground by a process called mining. The place where the ore comes from is called a mine. A mined ore must be processed in order to obtain a useful substance. For some substances, such as gold or gravel, a simple crushing or washing is all that is needed. For other substances such as iron, copper, or aluminium, the ore must be (7)

(adapted from Addison-Wesley, Earth Science. Addison-Wesley Company, 1987.)

- A) from which a needed substance can be removed cheaply and easily enough
- B) because they are good conductors of electricity
- C) in making fertilisers
- D) can be found as pure elements in nature
- E) further treated with heat, chemicals, or electricity to obtain the metal
- F) pressed into different shapes without breaking
- G) in making china and pottery

Task 5 Vocabulary: Choose the correct answer.

- 1. Microscopesvery small objects many times to make them visible. magnify enhance expand increase
- 2. Mercury is aat room temperature fluid liquid solid gas
- 3. Hydrogen and oxygen are the two that make up water. compounds atoms molecules elements
- 4. Allis composed of atoms. stuff material substance matter
- 5. The of lead is greater than that of aluminium. rigidity weight density volume
- 6. When water is heated itmore quickly. evaporates condenses melts solidifies
- 7. The of iron and oxygen produces rust. reaction separation decomposition composition
- 8. Chemists study the composition of natural substances machines mixtures alloys