GEM, GEMSTONE, & ORES WORKSHEET

DIRECTIONS: Use the following words to complete the paragraph below.

Amethyst	Expense	Reserves
Bauxite	Gems	Supply
Beautiful	Resources	Useful
Cut	Ore	Value
Crystal	Iron	
Demand	Rare	

Stones called _____ are highly prized minerals because they are _____ and often _____. Many gemstones have a _____ structure that allows them to be _____ and polished to the high quality need for jewelry. The difference between a gemstone and the common form of the same mineral is sometimes slight. For example a purple, quartz, stone called _____ has just traces of _____ in its structure.

Some minerals called ores contain a _____ substance that can be mined at a profit. An example of one such mineral is _____ because aluminum can be taken from it and made into useful products. In most cases, waste rock or material must be removed before a mineral can be used. If the _____ of mining gets higher than the _____ of the material, the mineral is no longer considered to be an _____. The value of the material can also change if the _____ or the _____ increases or decreases.

Mineral _____ are Earth's storehouse of useful minerals that can be recovered for use. These resources include already identified deposits for which minerals can be extracted profitably. This is known as a _____.

GEMSTONE STUDY GUIDE

1. Highly prized minerals are known as?   _____

2. Why are diamonds, rubies, & sapphires so valuable?

   _____

3. What processes must a stone undergo if it is to be made ready for use in jewelry?

   _____

4. What useful material may be obtained from the following example:

   a. Magnetite   _____

   b. Bauxite   _____

   c. Hematite   _____

   d. Galena   _____

   e. Zincite   _____

5. Explain why the cost of obtaining some minerals is very high?

   _____

   _____

   _____

6. State two reasons why recycling some products made from minerals is helpful?

   a. _____

   b. _____