**Unit 4 – Lesson 1B**

**Homework  
  
  
  
Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Homeroom: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**\_\_\_\_\_\_\_\_

**Question of the Day**

**How can we tell one mineral from another?**

**8th GRADE SCIENCE**

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[](http://www.bing.com/images/search?q=earth+science+Clip+Art&view=detailv2&&id=D1131DFD64AB8057F249F47E2F4D74A0737A29E9&selectedIndex=59&ccid=z5WPFzcr&simid=608016418901656782&thid=JN.ZLuBM81an57RQsxdQ2PuAg)

The data table below shows some characteristic properties of five different minerals. Base your answers to questions 1-3 on the table and your knowledge of science.

**Physical Properties of Five Minerals**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Mineral** | **Physical Properties** | | | | |
| **Color** | **Luster** | **Streak** | **Hardness** | **Density (g/cm3)** |
| kaolinite | white | nonmetallic | white | soft | 2.6 |
| galena | silver to gray | metallic | gray black | soft | 7.6 |
| graphite | silver to gray | metallic | black | soft | 2.3 |
| magnetite | silver to black | metallic | black | hard | 5.2 |
| olivine | green | nonmetallic | white | hard | 3.4 |

1. Identify the mineral that has the greatest difference between the color of its powder and the color of its outside surface.

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1. Explain why a sample of magnetite will scratch a sample of galena.

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