

## Lesson 3: What is the Property of Hardness?

### Brain Building Broadcast: Hardness

#### Purpose

Watch the video located at any one of the following addresses:

<http://goo.gl/h38ii>

<http://vimeo.com/49793225>

[http://www.youtube.com/watch?v=EftjD\\_JAmck&feature=g-all-u](http://www.youtube.com/watch?v=EftjD_JAmck&feature=g-all-u)

Watch the video carefully and be sure that you understand the lesson. Re-watch any part of the video that is unclear to you. After watching the video carefully, answer the following questions:

#### Word Wall Words

The ability for one substance to scratch another substance is called \_\_\_\_\_.

#### Questions

1. Circle the correct bold words for each sentence:

In the video, Mr. Fischer explains the hardness lab from last year.

He explained that copper **scratches** / **does not scratch** zinc, iron, and magnesium.

That means that copper is the **hardest** / **softest** of the four metals.

2. Imagine you are conducting an experiment with four minerals. You perform the same scratch test that Mr. Fischer discusses only with the four minerals and make the following observations:

- Quartz scratches sulfur, hematite, and calcite.
- Hematite scratches calcite and sulfur.
- Calcite cannot scratch quartz and hematite.
- Sulfur cannot scratch quartz, hematite, and calcite

Apply what you know about hardness to list the following minerals in order of softest to hardest.

\_\_\_\_\_

Softest



Hardest

#### Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

