***Biomineralization: Why are Abalone Shells so Strong and Shiny?***

1. What similarities and differences are there between the objects? List some properties and describe for each material.

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| **Property** | **Antacid** | **Supplement** | **Chalk** | **Abalone** |
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1. What do all the materials have in common?
2. What is your hypothesis about the relative strengths of these materials? Which is strongest? Which is weakest? Why?
3. Propose a method for testing your hypothesis using the supplies provided. What will you do? What will you measure? Will your data be quantitative, qualitative or both?

1. What is “strength”? Is there more than one kind?
2. Create a data table for recording the data for your experiment. Include a section in the table or after it for comments and observations.
3. What are your conclusions? Was your hypothesis correct?
4. How could you improve your experiment? What other experiments could you do?
5. Is abalone strong? What do you think causes the materials to have different strengths?
6. Name 3 new things you learned from this module.