You’re Stressing Me Out Lab Handout

Soapy Stress Worksheet

**Tensional Stress**

1. Draw how you broke the soap(rock) and draw arrows to show what forces of tensional stress were placed on the soap.



1. In what areas did you see the soap break?

**Compressional Stress**

1. Draw how you broke the soap(rock) and draw arrows to show what forces of compressional stress were placed on the soap.



1. In what areas did you see the soap break?

**Shear Stress**

1. Draw how you broke the soap(rock) and draw arrows to show what forces of shear stress were placed on the soap.



1. In what areas did you see the soap break?

**Force Analysis**

1. Why do you believe it would be harder for you to break an actual rock versus the bar of soap? Make sure your explanation includes the word “force.”

**Weathering**

1. Using the sharp edge of a piece of soap, hold it under running water. Over time, what do you notice happened to the edge of the soap? What does that say about weathering that occurs to rocks?

adapted from: Soapy stress - activity. (2021, January 23). TeachEngineering. Retrieved March 26, 2021, from https://www.teachengineering.org/activities/view/cub\_rock\_lesson01\_activity1