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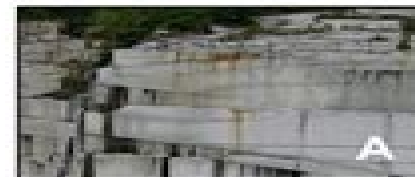
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Student Exploration: Weathering

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: abrasion, chemical weathering, clay formation, climate, dissolving, frost wedging, granite, limestone, mechanical weathering, rusting, sandstone, shale, weathering

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)
Compare the two pictures at right. Both pictures show the same kind of rock, granite.



1. Which rock do you think has been exposed on Earth's surface longer?

B

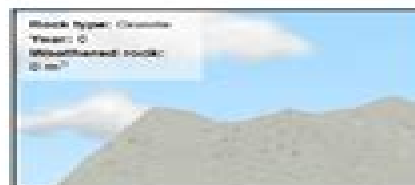
2. Why do you think so?

While A shows visibly that the rocks have aged from the rust, rust forms a bit quicker than a rocks breaking down and form into clay. B shows the rocks have gone through clay formation, which probably took decades to fully form.

Gizmo Warm-up

When rocks are exposed on Earth's surface, they are gradually broken down into soil by the actions of rain, ice, wind, and living organisms. This process is called **weathering**. In the Weathering Gizmo, you will explore how weathering takes place.

To begin, select the SIMULATION tab. Notice the selected **Rock type** is **Granite**, a hard, dense rock.



1. Click **Play** (▶). Wait for about 5,000 simulated years, and click **Pause** (⏸). What do you notice?

The rock got smaller

2. Click **Fastplay** (⏮). Wait for about 50,000 simulated years. What do you notice?

The rock got even smaller

3. Based on your observations, is weathering a fast or slow process?

Slow process

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web write the oxidation and reduction reactions for each redox reaction the first one is done for you 23 $\text{Fe} + \text{Co} \rightarrow \text{Fe} + \text{Co}^{2+}$ oxidation $\text{Co} \rightarrow \text{Co}^{2+} + 2\text{e}^{-}$ reduction $\text{Fe}^{2+} + 2\text{e}^{-} \rightarrow \text{Fe}$ 24 3 $\text{Ag} + \text{Ni} \rightarrow \text{Ag} + \text{Ni}^{2+}$ oxidation reduction 25 $\text{Cu} + \text{Pb} \rightarrow \text{Cu} + \text{Pb}^{2+}$ oxidation reduction 26 $\text{O}_2 + 2\text{H}_2 \rightarrow 2\text{H}_2\text{O}$

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web chemical reactions in which there is a transfer of electrons from one substance to another are known as oxidation

reduction reactions or redox reactions in this unit you will examine the oxidation reduction process and use the oxidation state and oxidation number concepts to identify redox reactions and to keep track of electrons

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web jun 28 2010 answers i determine what is oxidized and what in each reaction identify the oxidizing agent and the reducing agent also $2\text{Sr} + \text{O}_2 \rightarrow 2\text{SrO}$ Sr^0 to Sr^2 oxidized reducing agent O^0 to O^2 reduced ox ag $2\text{Li} + \text{S} \rightarrow \text{Li}_2\text{S}$ Li^0 to Li^1 oxidized red ag S^0 to S^2 reduced ox ag $3\text{C} + \text{S} \rightarrow \text{CS}_2$