



Lego Volcano

Duration: 25-30 minutes	Age Group: 7-9	Beginner
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1. Introduction/Discussion

Introduction-

This lesson is a short activity that students within the age of 10-12 will enjoy. Students will create a small lego volcano and then combine baking soda, vinegar, and red food coloring to see a lego volcano erupt.

Preparation-

The materials needed are flexible when it comes to lego.

- Duplos or Lego
 - Large flat base, with long bricks for the sides and four square bricks for the middle.
- Baking soda (one box)
- White Vinegar
- Red Food Coloring
- Plate or tray
- Paper cups to hold the vinegar + food coloring mix (only needed if each student will make their own volcano)

Discussion-

Have the students discuss what they think a volcano is, and ask them if they think they can create a volcano on their own.

2. Brainstorm

Tell the students that today they will have to make a volcano out of lego or duplo bricks. Have the students talk with one another about possible ideas for how they can make a volcano, and have them draw out some ideas on their own paper. (Students should have their own set of legos to create the volcano, but if there is not enough legos for that to happen, one bigger group volcano works just as well.) **Be sure to let the children play around with the legos to tinker with some ideas, but make sure that you guide them into making some form of a pyramid shape if they have trouble creating one on their own.** Students should now have a somewhat functional volcano created.

3. Go Make



Revise and plan with your students on the way the volcano should look. This will be better if it is done one on one, but with a larger class it will be much quicker to show the students what their build should look like. Once the build is finished, hand out Ziploc bags with baking soda inside for each student, and small cups with vinegar that has already been mixed with red food coloring. Tell the kids to pour the baking soda into/onto

the volcano and tell them to pour the vinegar into/onto the volcano.

4. Evaluate What You Made

Have the students talk with one another about what they made and have them evaluate their build. Make sure to discuss what they thought about the vinegar and baking soda reaction.

5. Tidy Up

Make sure to leave 5-10 minutes at the end of the lesson to wash the legos and properly pick up the mess.