



Raisin Resources

Getting Ready

We all need resources to live. So let's find out more about resources with cookies!

Stuff to Make it Happen (Materials)

raisin or chocolate chip cookies* toothpicks newspaper* 2 paper cups*

Making it Happen (*Don't eat anything in this activity!!!*)

1. Your task is to remove the raisins or chocolate chips from the cookies.
2. Corral the mess by laying down newspapers. Keep all work on these papers, please?
3. Use only toothpicks unless your teacher allows the use of other items for "tools".
4. Remove the raisins or chips anyway you want to. Put them into a paper cup.
5. Get another cookie. Now remove the raisins or chips with as little damage as possible to the cookie. Put the raisins or chips into the second paper cup. Clean up all messes!
6. Compare the number of chips or raisins with your two methods. Observe the first cookie was wrecked!! The second cookie was left in a lot better shape!

Understanding the Science

A **Resource** is any material taken from any place on or under the Earth. It can be a **Mineral** (like a **Metal**, **Fuel**, or **Rock**) an **Animal** or **Plant**, (like livestock or crop plants) or any other usable item the Earth has on it, around it, or under it. **Mining** is a process to remove something from the unusable rock around it. That's what you were doing-mining raisins or chips from your "Earth cookie". The first type of removing or **Extraction of Resources** would leave the "Earth" completely ruined. The second cookie "mining" got less chips or raisins, but the "Earth" was left in a lot better shape! Mining today has the responsibility to not ruin the Earth and **Reclaim** or repair the land as much as possible after mining.

Let's Check the View!

(Questions and Assessments)

1. If mining changes the land, then why even do any mining at all?
2. What does reclaiming the land do to the cost of mining and the resource?

