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*Lesson Plan: Rocks*

**Subject:** Science

Grade 2

**Suggested Time:** 50 minutes

**Overview:**

1. What are rocks?
2. Different types of rocks

3. How do the rocks form?
4. Different uses of rocks

### **Vocabulary :**

1. Concrete
2. Gemstone
3. Granite
4. Weathering
5. Gravel
6. Hard-wearing
7. Marble
8. Polish
9. Slate
10. Speckled

### **Objectives**

Students will apply what they've learned about rocks by interacting with different types of rocks directly. \* They will learn that rocks are made up of one or more minerals. Rocks can be described according to their origin, size, shape, texture and color.



### **Required Materials :**

1. Nature walk
2. Magnifying glass
3. Sketch pad, pencils, and erasers
4. Different types of rocks- precious stones/ gemstones, marble, unpolished rock, pebbles, granite, gravel, slates

### **Multimedia Resources :**

1. PPT containing the photos of different rocks to use in different ways
2. Videos: <https://youtu.be/7BvhEHACYdU>

<https://youtu.be/jP1qbwSGmNs> <https://youtu.be/ty2Za-O9h6w> <https://youtu.be/60wmyyCaUgQ>

**Background Information** Students have idea about natural resources like air, water, plants, animals and rocks. They have prior knowledge of living and non-living things. Also students know how to classify rocks by size, color, shape and texture.

### *The Lesson*

#### *Part 1: Explore:*

1. Teacher will take the children for a nature walk during their leisure period. And will ask the students to collect some stones or rocks.
2. After the nature walk call all the students and sit on the ground in a circle.

Ask the students to show their rocks and ask them to explain their rocks. Ask them to see their friends collected rocks also.

#### *Part 2: Comparative Study (50 minutes)*

1. Show them different types of rocks (Collected by the teacher from before). And then ask them how does each rock is different from other? Then teacher will ask the children if they found any similarity with the rocks that they collected.
2. Teacher will make 5 different groups. Each group will get 2 types of rocks and they will get 5 minutes to explore the rocks and take the notes about the texture, colours, sizes etc.
3. While students are sitting at their groups' tables, they will be provided with their Rock and Minerals Unit folder, lab sheet, two different rocks, and Magnifying glass. Groups are encouraged to observe both of their rocks with a Magnifying glass.
4. Groups use a Venn diagram to compare their two rocks. They describe how their rocks are similar and different. The Venn diagram is used to help groups to observe and compare minerals and rocks. Students can easily remember taught concepts when graphic organizers are used. It also creates an opportunity for the Junior Scientists to communicate their observation to their group members



5. While students are sitting at their desks, groups are called one at time to discuss their investigation. Teacher will permit students to share their findings so students can communicate to their peers. As the groups share, teacher will also explain about that particular rock (once a group finish their presentation). It is important that students communicate their findings to others. When students will do the presentation, it provides them with the opportunity to work on oral communication skills.

6. After each groups presentation, teacher will show the PPT of uses of rocks.

7 . After the PPT presentation teacher will ask the students to gather the rocks/ pebbles/ stones from their classmates and try to balance the rocks on each other

8. At the end, students will decorate or paint their own rocks and will take the rock with them.

*Follow Up Activity:*



1. Making a Rock Garden
2. Make their own rock with sand, clay and garden soil.
3. Sorting out different rocks
4. Making towers with different types of rocks and find out which tower is the strongest? And why?