



# EDUKALA



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foundation



# SCIENCE

# 1st Grade



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# THE EARTH

- Through this unit, students develop a basic understanding of the Earth's geography, ecosystems, and the interconnectedness of different elements of the planet. They also learn about the ways in which humans can positively or negatively affect the Earth and begin to develop an appreciation for the importance of environmental stewardship.



# OBJECTIVES



- To identify and describe different natural resources, such as water, soil, and air.
- To recognize and label different landforms, such as mountains, valleys, and plains.
- To identify and describe bodies of water, such as rivers, lakes, and oceans.





# PRE-ASSESSMENT



- **Circle Map:** Create a circle map on the board or chart paper with "The Earth" in the center. Ask students to brainstorm and write down everything they already know about the Earth and its features around the circle. This can help identify any misconceptions or knowledge gaps





# PRE-ASSESSMENT



- **KWL Chart:** Create a KWL chart (What I Know, What I Want to Know, What I Learned) on the board or chart paper. Ask students to fill in the "What I Know" section with everything they already know about the Earth and its features. This can help identify areas where students already have knowledge and areas where they need more instruction.







# PRE-ASSESSMENT



- **Picture Sort:** Provide students with pictures of different natural resources, landforms, and bodies of water. Ask them to sort the pictures into categories based on what they already know. This can help identify any misunderstandings or areas where more instruction is needed.
- **Vocabulary Quiz:** Give students a short quiz to assess their understanding of basic Earth-related vocabulary, such as "mountain," "river," "forest," "pollution," and "conservation." This can help identify any areas where students need more vocabulary instruction.



# PRE-REQUISITES

- Pictures of landforms, natural resources, maps, etc
- Magazines or newspapers with pictures for activity 1
- Natural Resources (soil, water)
- Printout of worksheets
- Empty Cardboard Box
- Green Construction Paper
- Play Dough, Sandpaper, Paint, Moss
- Labels and Marker





# ACTIVITY-1

## Earth Collage:

- Provide students with magazines, newspapers, and other materials with pictures of the Earth's features, such as landforms, bodies of water, and natural resources.
- Ask them to cut out pictures and glue them onto a piece of paper to create a collage.
- This activity can help students identify and recognize different features of the Earth.



# ACTIVITY-2

## Natural Resource Scavenger Hunt:

- Hide samples of different natural resources, such as soil, water, and air, around the classroom or outdoor area.
- Provide students with a checklist and have them find and check off each item.
- This activity can help students identify and recognize different natural resources.
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# ACTIVITY-3

## MAP SKILLS:

- Encourage students to prepare a "Where am I on the Map?" booklet
- This could be the first page given by the teacher (attached below)

Where Am I  
on the Map?



# ACTIVITY-3

- Second page- I live on planet \_\_\_\_\_ (students are encouraged to write the answer and design the page with their own creativity- preferable draw Earth)
- Third page- My Continent is \_\_\_\_\_ (students are encouraged to write the answer and design the page with their own creativity- draw Asia)
- Fourth page- My Country is \_\_\_\_\_ (students are encouraged to write the answer and design the page with their own creativity- Draw India)
- Fifth Page- My City/town/village is \_\_\_\_\_ (students are encouraged to write the answer and draw a picture of your favourite place where you live)
- Sixth Page- This is my home and my family (Students to draw a picture of them with their family, they could also paste a picture)



# ACTIVITY-4





## LANDFORMS DIORAMA PROJECT:






- Divide the students into groups
- Give them the below table (instruction sheet)
- Let them bring materials from home and prepare a diorama
- Students are encouraged to work in groups and divide work among themselves





# ACTIVITY-4

Step 1	Before you can make a landform diorama, you'll need to find a base- anything that is wide and shallow. This is something you don't need to keep for anything else as we'll be gluing thing down inside	
Step 2	Glue a piece of green construction paper to the bottom of your container. This will serve as land areas we can build on! Grab some brown play dough and make a large mountain for the corner of your diorama. Using white paint to represent snow, paint the top of the mountain so that is it "snow-capped."	
Step 3	Using blue paint, paint inside the groove on the mountain (representing the snow melting and a traveling stream) and near the base of the mountain. Understand how in the summer snow melts and water travels from the top of the mountain down to the valley	
Step 4	Continue the path of water to the upper corner of the container. This will be our river and our ocean later.	

Step 5	Add a few more landforms around your diorama. Place a small hill over near the mountain. Add a land island in the middle of your water. Use moss to represent forests. Paint a separate body of water that can represent a lake or pond.	
Step 6	Cut a small wedge of sandpaper to fit the remaining corner of the container. This can represent a desert in our landform diorama.	
Step 7	Use a label maker or small label stickers to add titles to each of your landforms. If you are using this project for a science fair, you can number each title to correspond with your science display board or written report	
Step 8	If you have small plastic animals available, these would be a great way to expand your project to showcase animal habitats! Just don't place your polar bear in the desert!	  <p>Landform Diorama</p>



# POST-ASSESSMENT



## 5 Ways I Can Help Our Earth




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for more:  [www.dheerya.org](http://www.dheerya.org)

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