

Quarter 1 Science

Project Choices for First Grade

Due by November 5th

We have begun our first unit of study: **Habitats** (including Ocean, Wetland, Rainforest, Temperate Forest, Arctic, Desert and Savannah/Grasslands). We will spend one week on each Habitat. Students will be working on their Habitat Book during class time where they will create their own "Book" of what they learn. There will be "***Challenge***" projects available to students who finish early. In addition, students are responsible for a **Final Project** that will be presented to the class at the end of the Quarter.

Students are welcome to complete Final Projects early, but **all students will be sharing on November 5th**. Students are responsible for choosing and completing **only 1** Final Project from the 4 choices for an Outstanding Grade. I will only be grading one project per student. Best of luck!

Terrarium: (Choose Desert or Rainforest)

Objective: Students will see how different plants survive in Desert/Tropical Habitats.

Materials needed: Glass/Plastic Container, soil/sand, rocks, plants (succulents or tropical)

Student must create a small Desert or Rainforest habitat in a glass or plastic container. They must also complete the attached form to explain what they learned during the process.

Blubber Experiment:

Objective: Students will understand how animals use blubber to stay warm in cold habitats.

Materials needed: Ice and your choice of material that will represent blubber (ex: Crisco, rubber, etc…)

Student will create a way to show how blubber keeps animals from getting too cold in the Arctic. They can show it on presentation day or use a video or picture of what they did. The attached form must also be completed along with the experiment.

Plan a Hiking Trip

Objective: Students will show how to prepare for a hike in the mountains/forest.

Materials: Paper, posterboard, pictures, labels, markers, etc..

Students will create a Brochure or Poster showing how to prepare for a Hiking Trip. They must include what you should bring, what you should wear and what you will see. Completing the attached form will help with this process.

Shadowbox of a Habitat

Objective: Student will understand the features of one particular habitat (of their choice).

Materials: A Shoebox, decorations (paper, paint, pictures, figures, etc…)

Student will choose 1 Habitat that was studied and create a Shadowbox that represents its major features and the animals that live there. They also need to complete the attached form for the presentation.

Name: _____ Due by November 5th

Terrarium



Directions: Student must create a terrarium using a glass or plastic container.

What is A Terrarium? A terrarium is a miniature landscape with living plants and sometimes, small animals like lizards or turtles.

What kind of habitat would you consider your terrarium? (Circle)

Rainforest **Desert**

What ingredients did you use in your terrarium? (Circle any that you used.)

sand **pebbles** **soil** **moss**

Other: _____

What steps did you take to build it?

Step 1: _____

Step 2: _____

Step 3: _____

Step 4: _____

Step 5: _____

Flying colors: Pick a specific Desert or Rainforest to model your terrarium after. Label any animals or plants that would be found in that Habitat.

Name: _____ **Due November 5th**



Blubber Experiment

Directions: Choose 2-3 materials that will prevent the temperature of cold ice from affecting your hand. Measure the material against your bare hand in a cold bowl of ice. Check which one lasted longer.

Material	Protected Hand in ice	Bare Hand in ice
1.		
2.		
3.		

Which material keeps your hand the warmest?

_____

Name one new thing you learned while doing your experiment.

_____

_____

What kind of animals do you think need blubber to protect them in the Arctic? (Name at least 4)

_____ _____

_____ _____

_____ _____

Flying Colors: Attach pictures (drawings or photographs) or a video of yourself doing the activities.



Name: _____ **Due by November 5th**

Plan a Hiking Trip



Materials needed: Paper or poster board, markers, crayons, pictures, etc…

Directions: Use the questions below to help you plan your hiking trip brochure or poster.

Where are you going hiking?

(name a hiking trail or mountain)

_____

	What will you need to bring?	What will you need to wear?	What will you see?
1.			
2.			
3.			
4.			
5.			

Is it important to prepare for hiking? Why or Why not?

_____

_____



Flying Colors: Choose a hike you have already done and complete your brochure using pictures from your hike.

Name: _____ **Due November 5th**

Habitat Shadowbox



Directions: Create 1 habitat by using a shoebox and decorations. Include plants and animals that live in that habitat.

What type of Habitat did you choose? _____

Where in the world can you find this Habitat?	**What plants can you find in this habitat?** **(At least 3)**	**What animals can you find in this habitat?** **(At least 3)**

Would you live there? (Why or Why not)_____

_____

_____

Flying Colors: Label the items in your Shadowbox. Find a real habitat that resembles the one you made and share a picture of it.