



Introduction to Rainbows

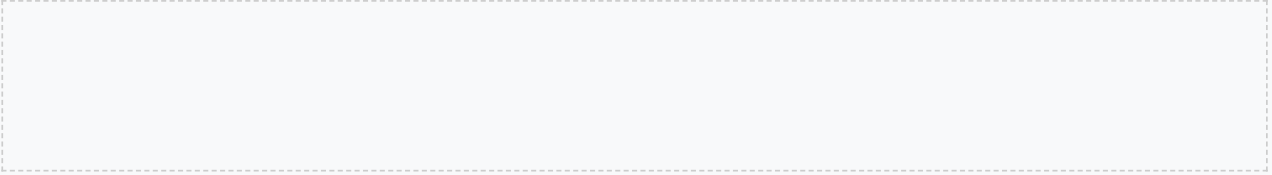
Welcome to our journey to explore the fascinating world of rainbows! In this activity, we will learn about the science behind rainbows and how they are formed.

 A beautiful picture of a rainbow

What is a Rainbow?

A rainbow is a beautiful natural phenomenon that occurs when sunlight passes through water droplets in the air.

 A diagram showing the formation of a rainbow



Conditions for Rainbow Formation

The sun must be behind the observer, and there must be water droplets in the air.




A picture of a rainbow with the sun behind it

Activity:

Create a diagram showing the position of the sun, water droplets, and the observer.

Refraction and Dispersion

The light is refracted and dispersed into its color components.

 A diagram showing refraction and dispersion



Colors of the Rainbow

The colors of the rainbow are red, orange, yellow, green, blue, indigo, and violet, and they appear in this order because of their wavelengths.

 A picture of a rainbow with its colors labeled

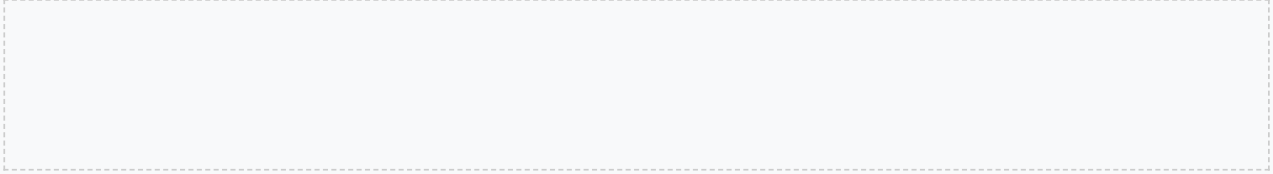
Activity:

Arrange the colors of the rainbow in the correct order.

Rainbow Experiment


Can you create a mini rainbow using a glass of water and a flashlight?

 A picture of a mini rainbow experiment



Rainbow Mythology

Rainbows have significant cultural and symbolic meanings across various societies, often representing hope, promise, and diversity.


 A picture of a rainbow in a mythological context

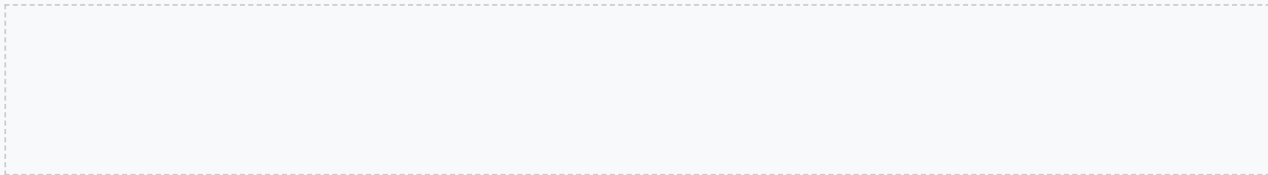
Activity:

Research and present on the mythological significance of rainbows in different cultures.

Rainbow Photography


Can you take a picture of a rainbow?

 A picture of a rainbow taken by a student



Rainbow Art

Can you create a piece of art inspired by rainbows?


 A picture of a rainbow-inspired art piece

Activity:

Create a piece of art inspired by rainbows.

Conclusion

What did you learn about rainbows?

 A picture of a rainbow with the text 'Congratulations! You are now a rainbow expert!'

Reflection:

1. What was the most surprising thing you learned about rainbows?

2. How will this learning change your actions in the future?

3. What questions do you still have about rainbows?