

Grade 3

Lesson 1, 2, & 3

Weather and Climate

Driving Question: How can recognizing trends and patterns of weather and climate in different regions help prepare people for and lessen the impacts of natural hazards?

Learning Objective:

- Students will compare and contrast weather and climate.
- Students will examine the layers of the Earth's Atmosphere.
- Students will study the different types of clouds.

Success Criteria: I can...

- ★ define weather and climate vocabulary
- ★ complete a Venn Diagram
- ★ complete an experiment to show air layers
- ★ sort cloud pictures by their cloud types

Vocabulary:

- [weather](#)
- [climate](#)
- [climate zone](#)
- [meteorologist](#)
- [atmosphere](#)
- [precipitation](#)
- [interact](#)
- [air pressure](#)
- [wind direction](#)
- [humidity](#)
- [temperature](#)

- [Cirrus cloud](#)
- [Cumulus cloud](#)
- [Stratus cloud](#)
- [Cumulonimbus cloud](#)
- [thermometer](#)
- [rain gauge](#)
- [anemometer](#)
- [Barometer](#)

Click on the vocabulary boxes to see pictures, videos and definitions for each word. Refer back to this throughout the entire lesson.



Watch **both** of the following videos:

- [Weather vs. Climate](#) - (4:32)
- [Study Jams](#) - (4:16)

Grab a paper copy of the [Weather and Climate Venn Diagram](#) from your teacher or click on the link to create a copy in your Google Drive. When completed, share the document with your teacher.

You will be comparing and contrasting the two videos for this assignment. Please share out your completed diagram with a partner.

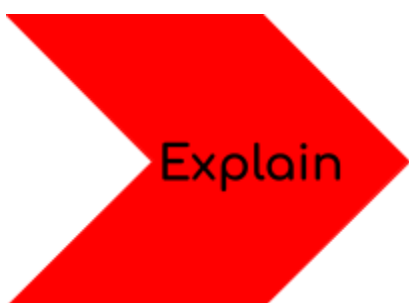
[Weather and Climate Venn Diagram](#)



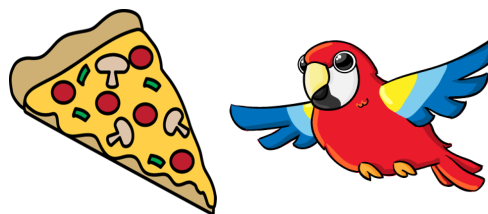
Read through the article on [An Introduction to Weather](#) and take notes in your Interactive Science Notebook. Refer to the linked vocabulary above if you need help on any of the definitions.

Use your Interactive Notebook to answer the following question.

What are the four ingredients the article describes that causes the weather?



Complete this [Playposit](#) to study the Earth's Atmosphere using Pizza and a Parrot! (You will need headphones to complete this session).



Elaborate

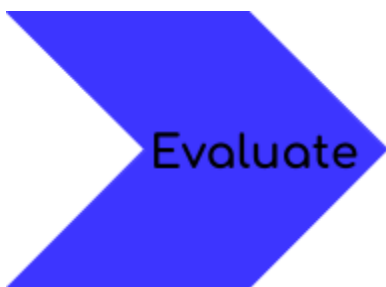
Gather the materials you will need to complete the experiment on the different levels of the Earth's atmosphere.

- ★ Clear container or cup
- ★ Water
- ★ Leaves (any type)
- ★ Rocks (smaller)

Use the materials to complete the experiment from the video. If you need to rewatch the video without the Playposit, click [here](#).



You will be explaining how and why the rocks and leaves did what they did. Write your answer on a sticky note and place it in your interactive notebook to refer back to later.



Watch ONE of the following videos or read ONE of the following articles on the different types of clouds:

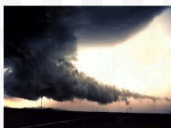
- [The Cloud Book](#) - (7:08)
- [All About Clouds](#) - (3:45)
- [Cloud Article](#)
- [Clouds](#) (PebbleGo Next)

Username: fredco

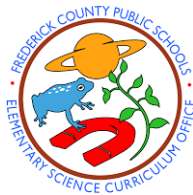
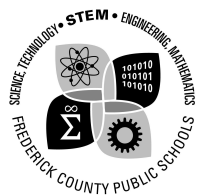
Password: fredco

Afterwards, complete the digital copy of the Cloud sort and share the drawing document with your teacher.

- [Digital Copy of Cloud Sort](#)

	These clouds bring light rain or snow.
	These clouds look smooth and grey. They sit very low and block out the sunlight.
	These are fair weather clouds.

Use the link to access [Quizlet](#) to test your knowledge on this unit's vocabulary. If you can find more than 4 players, you can have your teacher set up a Quizlet Live game.



The general weather conditions in an area over a long period of time

1 Climate

2 Meteorologist

3 Interact

4 Weather