



U2D1 –
Atmosphere

U2D1 – Bell Ringer – 10/24



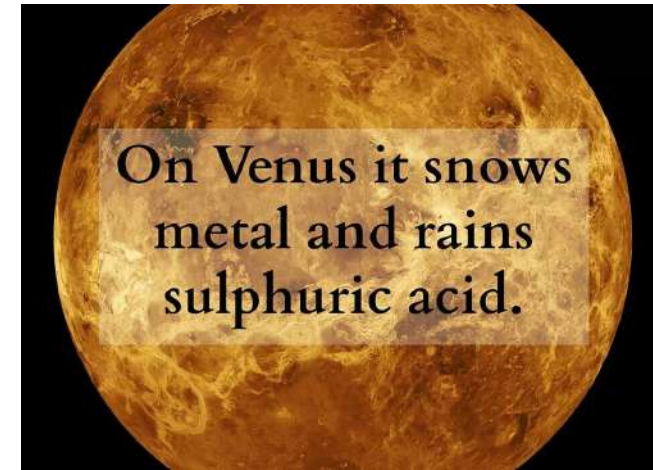
NEW GROUPS! GET A CARD ON THE WAY IN!

NEW GROUPS!

Bell Ringer In Atmosphere section!

Choose at least 1 photo.

- 1) What do you notice?
- 2) What do you wonder?



Unit 2 Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
21 - October	22	23	24	25
			U2D1 Atmosphere Questions	Counselors' presentation
28 - October	29	30	31	1 - November
U2D2 Review Hydrology Test Atmosphere Notes	U2D3 Ch 17 questions - Due Friday 11/1	U2D4 Seasons Our Atmosphere's Past	U2D5 Warming our atmosphere Convection lab - Due 11/4 Summary Chart #1	U2D6 Atmosphere quiz #1 Ch 17 questions due Carbon quest
4 - November	5	6	7	8
U2D7 Combustion demo Summary Chart #2 Finish carbon quest Convection lab due	U2D8 Greenhouse Effect lab - Due 11/11 Makeup: Phet Simulation Summary Chart #3	U2D9 CO2 Manu Lao and Human output data Analyze and interpret Summary Chart #4	U2D10 Berry Out Chasing Ice Documentary	U2D11 Berry Out Atmosphere Quiz #2 Chasing Ice Documentary
11 - November	12	13	14	15
U2D12 Indigenous People Article Temperature data analysis Greenhouse Effect Lab Due	U2D13 Future predictions CO2 data Start CER	U2D14 Claim, Evidence, Reasoning Writing	U2D15 Climate Change Summit Research	U2D16 Climate Change Summit Research
18 - November	19	20	21	22
U2D17 Climate Change Summit Day 1	U2D18 Climate Change Summit Day 2	U2D19 Review	U2D20 Atmosphere Test Atmosphere Study Guide DUE	

Objectives

Content Objective: I can ask open-ended questions about changes in the atmosphere and climate

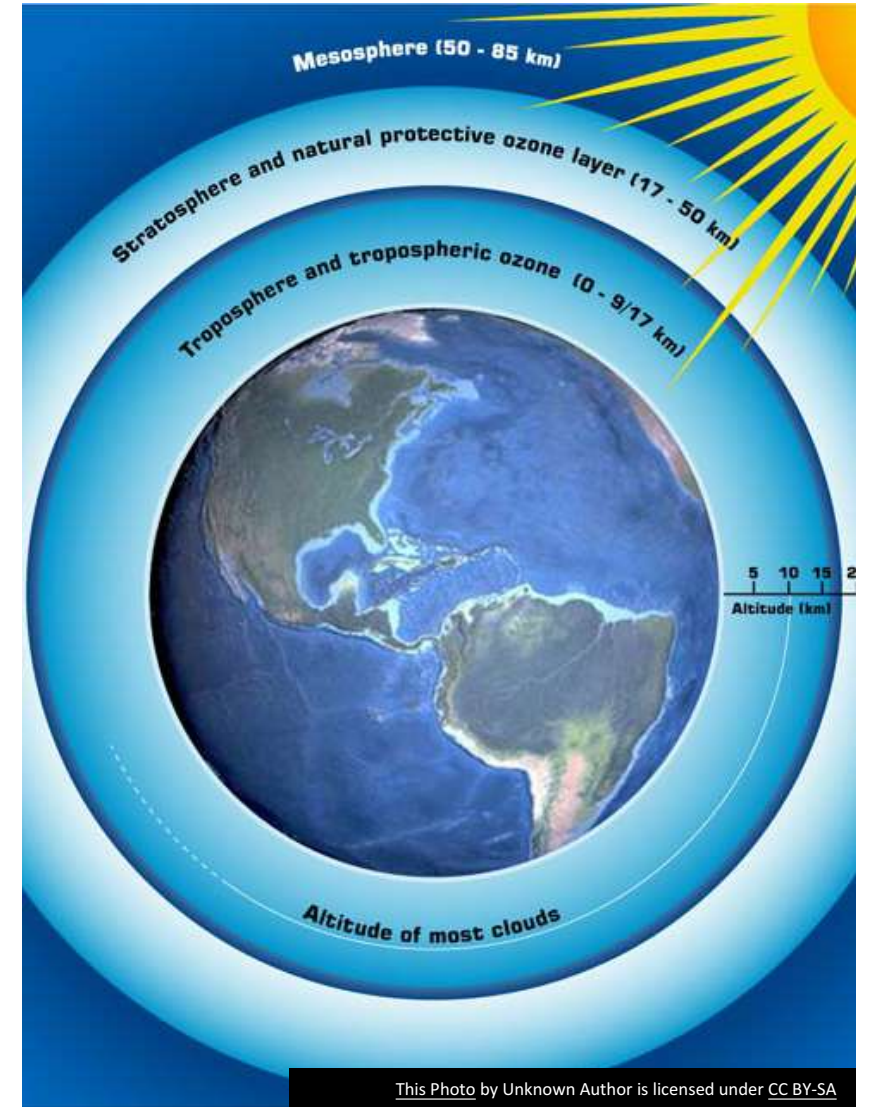
Language Objective: I can revise questions to be open-ended.

Intro to Climate Change



Quick Write: What do you already know about...?

Layers of the atmosphere	Seasons	Climate	Greenhouse Effect
Greenhouse Gasses	Carbon Cycle	The Ozone Layer	Climate Change
	Climate Data	Climate Modeling	



Question Formulation Technique

It will help us produce
our own questions.

It will help us improve
our own questions.

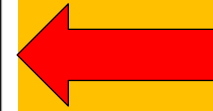
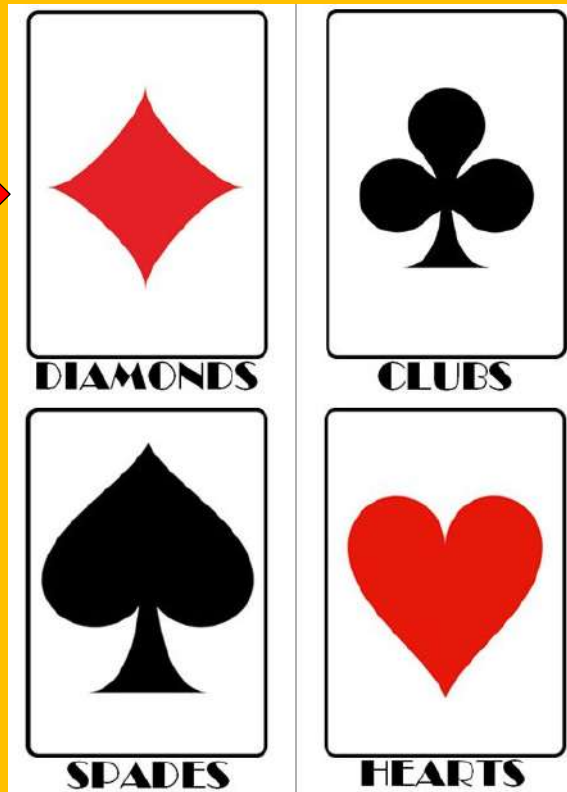
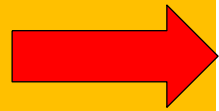
It will help us prioritize
our own questions

Rules

Ask	Ask as many questions as you can.
Do not stop	Do not stop to discuss, judge, or answer any questions.
Write down	Write down every question exactly as it is asked
Change	Change all statements into questions

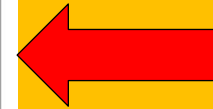
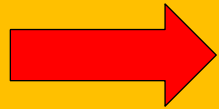
Question Formulation Group Roles

Resource Manager:
Grab poster and markers



Recorder
Writes questions on the paper.

Reporter:
Shares out top questions at the end.



Facilitator:
Make sure everyone's ideas are heard.

Checking for Understanding

Who is the reporter for your group?

What will you do if someone says something that is not a question?

What is the purpose of the QFT?

Step 1: Producing Questions (4-minute brainstorm)

Essential Question:

How do amounts of energy in the atmosphere change and how does that affect climate and temperature?

Layers of the
atmosphere

Seasons

Climate

Greenhouse
Effect

Greenhouse
Gasses

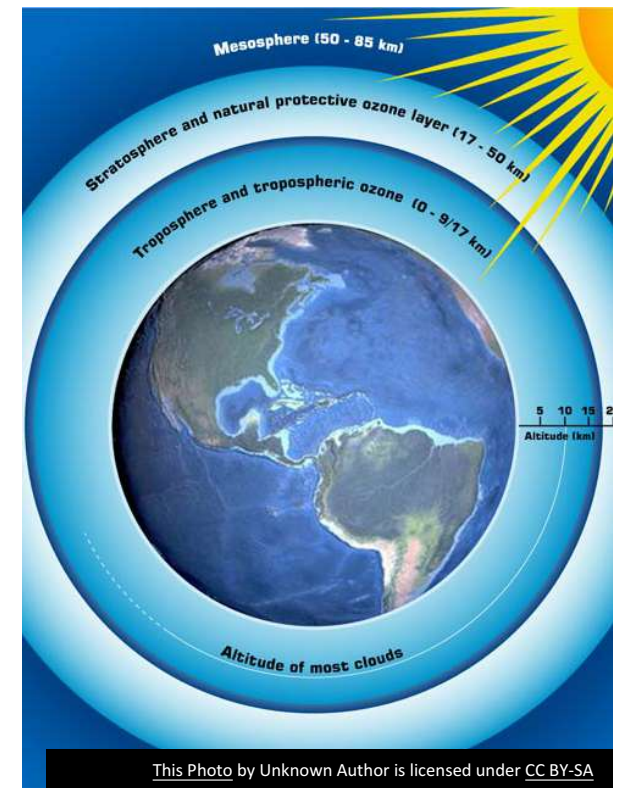
Carbon
Cycle

The Ozone
Layer

Climate
Change

Climate Data

Climate
Modeling



Question Type	Closed-Ended Questions → C	Open-Ended Questions → O
Definition	Has only one answer	Has many possible answers
Example	Which Pokémon is number 3 in the Pokédex?	Which Pokémon is the best Pokémon?
Advantage?		

Step 2: Improving Questions

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Go through each of your questions and categorize them as C (closed) or O (open).

Change any Closed questions to Open questions.

Step Three: Prioritizing Questions

Now that you have a list of questions, it is time to determine which questions are most important for us to address.

First choose one person from your group who has not yet been the recorder and allow them to write for this step.

Now, as a group, take four minutes to rank your questions from **Most Important to Least Important**.

Have the new recorder write numbers next to each question to indicate their importance (low numbers are most important).

Step 4: Choosing Your Best

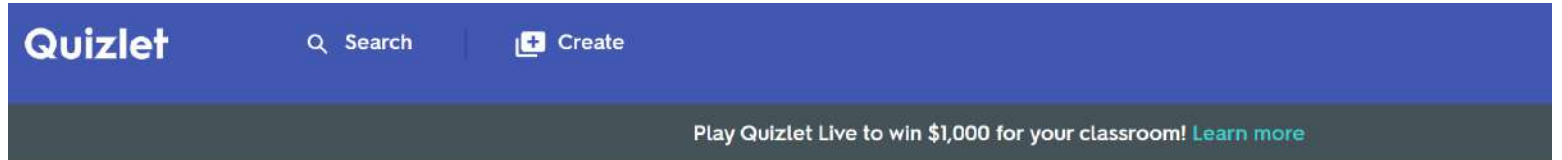


Now that you have considered which questions you think are most important, as a group agree on 3 questions which you would like to present to the class.



When your class is called upon, read your questions out loud and Mrs. Berry will add them to the Atmosphere Class Question Bank.

Quizlet
Practice!
Choose “Learn”
first!



Unit 2 - Atmosphere

STUDY

 Flashcards

 Learn

 Write

 Spell

 Test


PLAY

 Match

 Gravity

 Live

Convection

Click card to see definition 



1/30



Exit Ticket



- On a Sticky Note, write a compliment to someone in the class.
- Make sure it's not superficial, not about their looks or clothes.
- Instead, tell them something nice about their personality, character, or how they helped you learn this unit.