

8th Science: Amplify

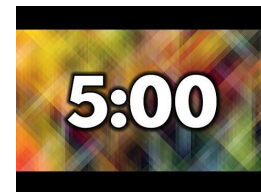
Unit 3 Lesson 1.2

Picturing the Moon

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Do Now

- Expectations, **ALL SILENT (VL = 0)**
 - Get packet from green bin
 - Go to assigned seat and put backpack on hook
 - Work on Do Now at top of paper



Do Now

What do you already know about the moon? Write AS MUCH AS POSSIBLE

What questions do you have about the Sun, Moon, or Earth? AS MANY AS POSSIBLE

Turn and Talk



- Share:

Do Now

What do you already know about the moon? Write AS MUCH AS POSSIBLE

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- Expectations
 - ***Turn your shoulders to partner***
 - Make eye contact
 - Stay on topic!
 - Name that comes first in the alphabet goes first
- ***Cold calling 2+ for share out after*****

Today's Objectives

- I can explain how the moon lights up using evidence from the simulation.

Today's Schedule

1. Intro Video
2. Pre Lesson Poll
3. SIM
4. Model
5. Article with Questions

Late Work

- All late work is due this Friday!
- I have copies of ALL assignments ready!
- Need to do exit tickets with me
- Tutoring today

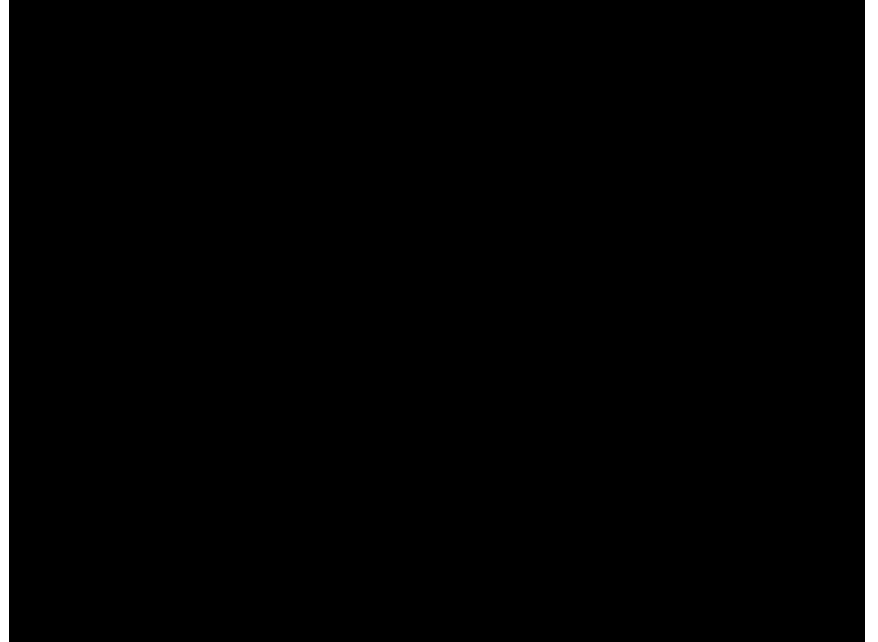
Computer and Headphones

- Reminder:
 - No headphones or YouTube in class
- 1 warning then...
 - Computer taken away
 - Headphones taken until end of period

Video

WHAT TO DO

- VL = 0
- 3 observations written down
- 2 questions written down
- Eyes on screen or paper



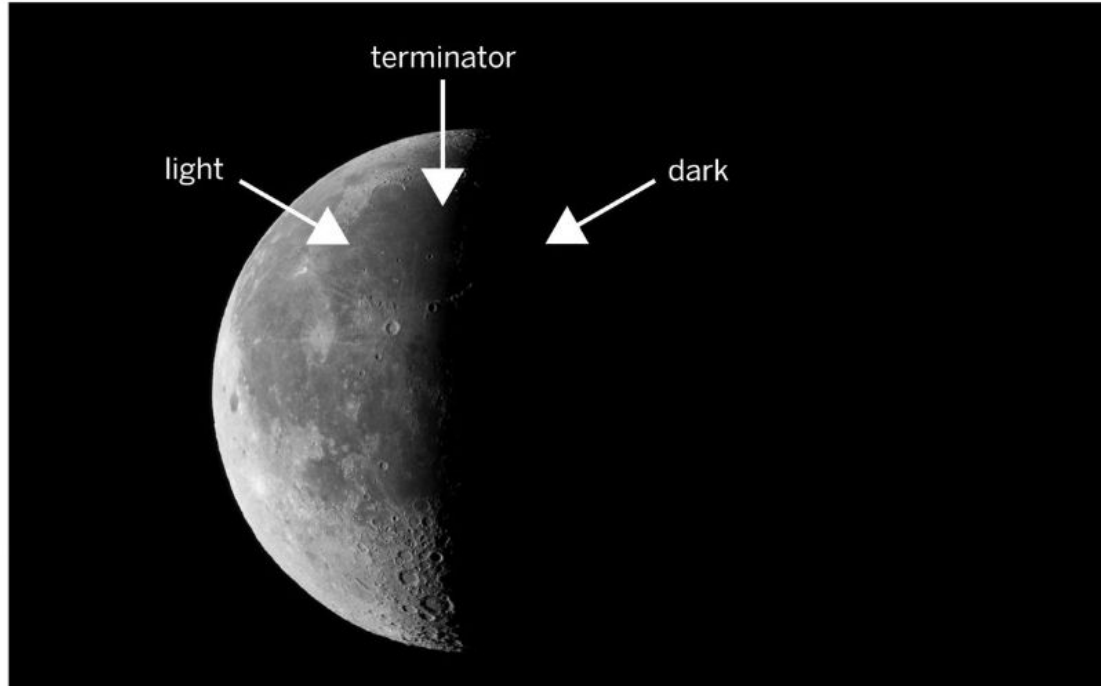
Share Out

Intro Video

Observations	Wondering
<ul style="list-style-type: none">• _____ _____	<ul style="list-style-type: none">• _____ _____
<ul style="list-style-type: none">• _____ _____	<ul style="list-style-type: none">• _____ _____
<ul style="list-style-type: none">• _____ _____	

Definition

terminator: the border between light and dark on the Moon



Computer Setup

WHAT TO DO

- VL = 1.5
- Login to computer as soon as handed out
- Go to Weebly
- DO NOT CLICK ON ANY LINKS YET



Pre Lesson Poll

WHAT TO DO

- VL = 0
- Click on LINK #1
- Answer the poll question
- Half close computer
- Done in 1 min.



Where does the Moon get its light?

- The Moon makes its own light.
- The Moon gets light from the sun.
- The Moon gets light from Earth.

Pre Poll Result Questions



WHAT TO DO

- VL = 0
- Pick 1 answer you agree with and 1 answer you disagree with
- Explain your reasoning
- Be ready to share answer

Pre Poll Result Questions

Which answer do you agree with from the poll and why? **Complete sentences**

Which answer do you disagree with from the poll and why? **Complete sentences**

Share Out

- Share:

Pre Poll Result Questions

Which answer do you agree with from the poll and why? **Complete sentences**

Which answer do you disagree with from the poll and why? **Complete sentences**

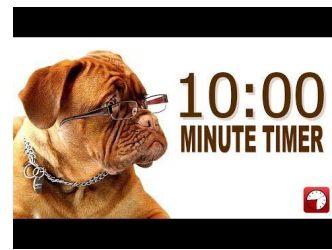
- Building off each other

- I also agree because...

OR

- I actually disagree because...

How does the SIM work?



WHAT TO DO

- VL = 1.5
- Table Partner
- Read the questions then play around with SIM to answer
- Start collecting evidence section if done early
- 10 min to complete

✓ = good keep going

○ = use feedback to fix

How does the SIM work?

Instructions: As you explore the Sim, discuss the following questions with your partner

- What are the three different view types (look at each window's name) and how could they be useful?

1. _____
2. _____
3. _____

- Explain what 3 buttons on the SIM look like and what can do

1. _____
2. _____
3. _____

- What are two variables (factor, trait, or condition) that you can change on the model?

1. _____
2. _____


- What are 2 questions you have about the Sim?

1. _____
2. _____

SIM Collecting Evidence



WHAT TO DO

- VL = 1.5
- Table Partner
- Will demo, press play with “weeks” then look at the specific view
- This button for sun 
- 10 min to complete

✓ = good keep going

○ = use feedback to fix

SIM Evidence Collecting

Instructions: Write down an observation from each of the view types when you press play

- When looking at the "System View" box I observed _____

- When looking at the "View from Earth" box I observed _____

- When looking at the "Top View" box I observed _____

Instructions: Answer the question below

What happens when you turn the sunlight off? What about when its on? Compare and contrast

SIM CER

WHAT TO DO

- VL = 1.5
- Table partner
- Sentence Starters

Claim: The moon gets...

Evidence: In the SIM I observed...

Reasoning: Since _____, this proves...

✓ = good keep going

○ = use feedback to fix

SIM CER

Prompt: Where does the Moon get its light?

Claim: _____ _____
Evidence: _____ _____
Reasoning: _____ _____ _____



Post Lesson Poll

WHAT TO DO

- VL = 0
- Click on LINK #3
- Answer the poll question
- Half close computer
- Done in 1 min.



Where does the Moon get its light?

- The Moon makes its own light.
- The Moon gets light from the sun.
- The Moon gets light from Earth.

Share Out

- Share:

Where does the Moon get its light?

- The Moon makes its own light.
- The Moon gets light from the sun.
- The Moon gets light from Earth.

- Building off each other

- I also agree because...

OR

- I actually disagree because...

Model

WHAT TO DO

- VL = 1.5
- Include ALL requirements and labels
- 1 sentence explaining model
- Done in 6 min.

✓ = good keep going

○ = use feedback to fix



Terminator Model

Instructions: Create a model of the moon the includes the following...

- Dark side of the moon label
- Light side of the moon label
- Terminator label
- Source of light label
- 1 quality sentence explaining the model

1 quality sentence explaining model: _____

Article Questions

WHAT TO DO

- VL = 1.5
- Go to LINK #4
- Use article and pictures so answer questions

✓ = good keep going

○ = use feedback to fix

Article Questions

Instructions: Answer the following questions using the reading and pictures in it

Vocabulary

solar system	_____
sun	_____
moons	_____
scale	_____
model	_____
orbits	_____

When are models that are to scale more useful?

When are models that are NOT to scale more useful?

What does the model in picture #2 show you? Is it to scale or not to scale? Explain in your own words with complete sentences.

What does the model in picture #3 show you? Is it to scale or not to scale? Explain in your own words with complete sentences.

