



Lunar Exploration

Comprehension Exercise

Classroom Activity

Material List:

- RAS Lunar Exploration document
- Pen/Pencil
- Student Guide

Outline

This is a comprehension activity where you will be expected to read the document and answer the related questions.

You will be expected to go through the document one or two pages at a time and work your way through the activity sheet in order.

Procedure:

1

Read page one of the RAS Lunar Exploration document and answer the following questions:

- a) How many missions to the moon have been launched by US and Russia since 1959?
- b) What did Lunik 3 do that was special?
- c) How many astronauts did the Apollo project get on the moon's surface?

Online Observatory: onlineobservatory.eu

The online observatory collaboration consists of the following partners:

Baldone Observatory, Brorfelde Observatory, Cardiff University, Harestua Solar Observatory, Helsinki Observatory



d) Why is it difficult to see the stars during a Lunar day?

e) What is the temperature range on the moon?

2

Read page two of the RAS Lunar Exploration and answer the following questions:

a) What does the size of moonquakes suggest about its tectonic plates?

b) What do moonquakes echoing suggest about the moon's interior?

c) How do we know the moon is moving away from Earth?

3

Read page three of the RAS document and answer the following questions:

a) Name 3 missions post-Apollo and the year(s) they took place?



4

Read page four and answer the following questions:

- a) What kind of rocks make up the moon?

- b) What are the main differences between mare rocks and highland rocks?

5

Read page five and answer the following questions:

- a) How long does it take the moon to orbit Earth?

- b) Why is the gap between full moons longer than this?

- c) How much of the moon can be seen from Earth?

- d) What is the moons diameter and its size relative to:
 - 1. Diameter

 - 2. Earth

 - 3. Mercury



6

Read page six and answer the following questions:

a) What is a blue moon?

b) Why do harvest moons look so large?

c) Complete the table:

Month	Moon Name 1	Moon Name 2
April		
January		Winter
	Thunder	Hay
September		
	Crow	
		Falling Leaves
		Flower
February	Snow	
November		
		Long Night
	Green Corn	

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Read page seven and answer the following questions:

- a) What did early astronomers believe the dark grey sections were?

- b) What are they actually?

- c) Name 5 of the moons Maria:

8

Read page eight and answer the following questions:

- a) A lack of atmosphere means surface rocks are continuously battered by what?

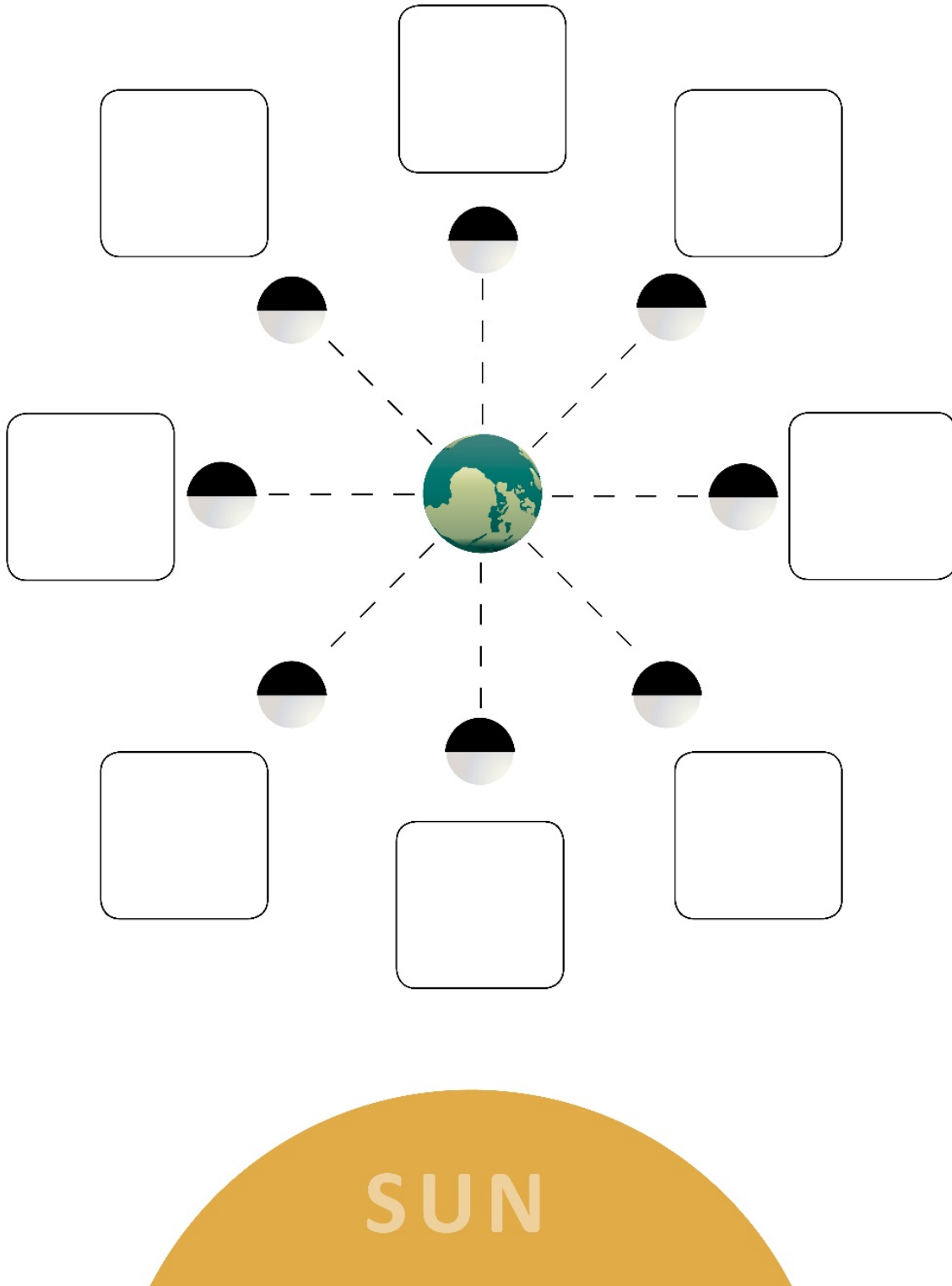
- b) What is regolith?

- c) What took the photo of the Van de Graff crater?



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Read pages 10 and 11 and use them to help you complete and label the moon phase diagram:





Read pages 10 and 11 and use them to help you complete and label the moon phase diagram:

a) What causes tides?