KS2 SCIENCE · EARTH AND SPACE (YEAR 5)

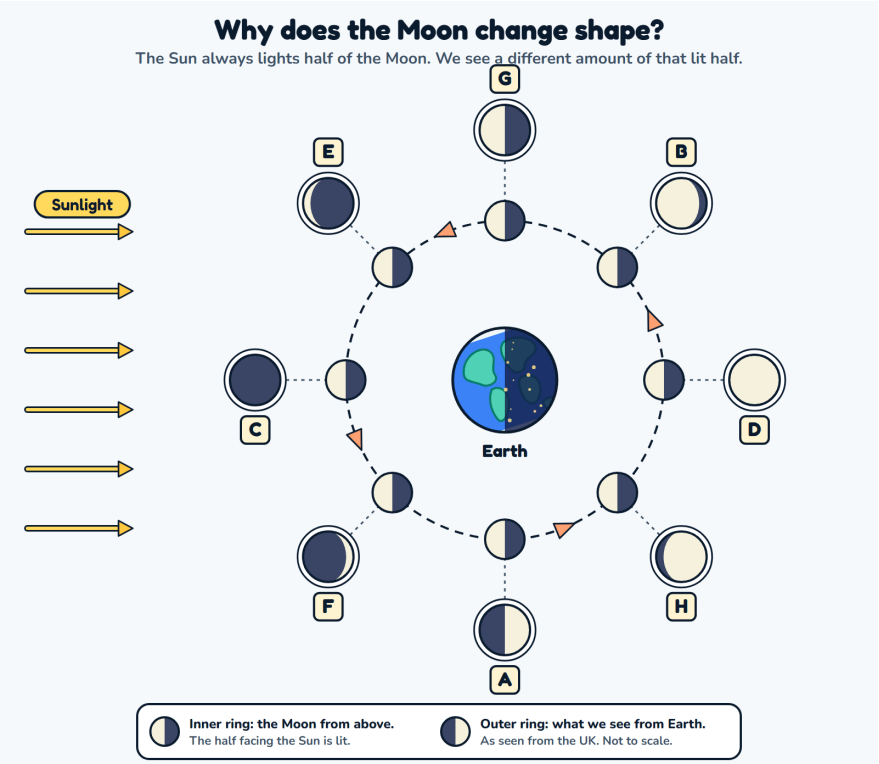
Phases of the Moon Worksheet

Name the phases. Then decide: is the Moon waxing or waning?

Name: _____

Date: _____

A NAME THE PHASES. Write the name next to each letter.



A. _____

B. _____

C. _____

D. _____

E. _____

F. _____

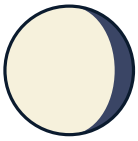
G. _____

H. _____

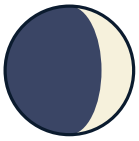
Word bank:

New Moon	Waxing crescent
First quarter	Waxing gibbous
Full Moon	Waning gibbous
Last quarter	Waning crescent

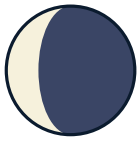
B WAXING OR WANING? Tick one box for each Moon (seen from the UK).



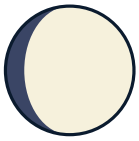
1. ☐ waxing ☐ waning



2. ☐ waxing ☐ waning



3. ☐ waxing ☐ waning



4. ☐ waxing ☐ waning

C TRUE OR FALSE?

	True	False
1. The Moon makes its own light.	☐	☐
2. The Sun always lights half of the Moon.	☐	☐
3. At full Moon, the Moon is between the Earth and the Sun.	☐	☐
4. From the UK, a waxing Moon is lit on the right.	☐	☐

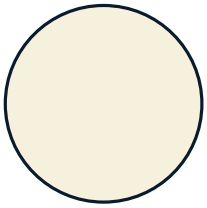
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Order and Explain

Cut out the cards and put them in order. Then explain your ideas.

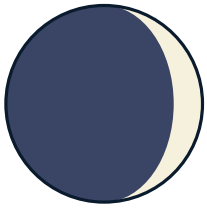
D CUT AND ORDER. Start with the new Moon. Write the order of the card numbers.

Card 1



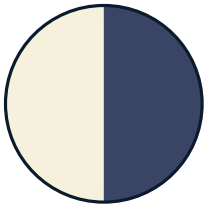
Name: _____

Card 2



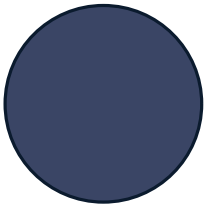
Name: _____

Card 3



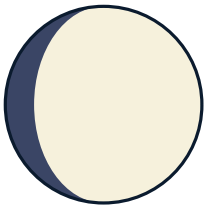
Name: _____

Card 4



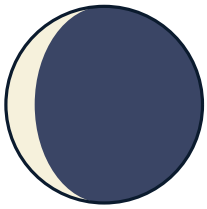
Name: _____

Card 5



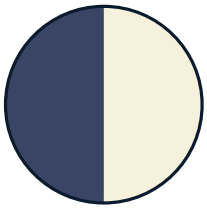
Name: _____

Card 6



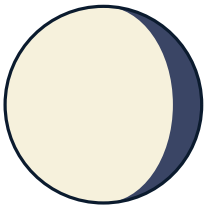
Name: _____

Card 7



Name: _____

Card 8



Name: _____

Order of the cards: ___ ___ ___ ___ ___ ___ ___ ___

E EXPLAIN

1. The Moon does not make its own light. How can we see it?

2. Why do we see a full Moon? Use the words “lit half” and “Earth”.

3. Amir says: “The Earth’s shadow makes the phases.” Is he right? Explain.

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Answers for parents and teachers

Praise clear reasons, not only correct names.

A NAME THE PHASES

A first quarter B waning gibbous C new Moon D full Moon

E waning crescent F waxing crescent G last quarter H waxing gibbous

B WAXING OR WANING

1 waning (lit on the left) 2 waxing (lit on the right) 3 waning 4 waxing

Rule for the UK: lit on the right = waxing (growing); lit on the left = waning (shrinking).

C TRUE OR FALSE

1 False: the Moon reflects light from the Sun. 2 True.

3 False: that is a new Moon. At full Moon the Earth is between the Sun and the Moon. 4 True.

D CUT AND ORDER

Order: 4, 2, 7, 5, 1, 8, 3, 6

(new, waxing crescent, first quarter, waxing gibbous, full, waning gibbous, last quarter, waning crescent)

E EXPLAIN

1 Light from the Sun hits the Moon and bounces off (reflects) into our eyes.

2 The Moon is on the far side of the Earth from the Sun, so all of its lit half faces the Earth.

3 No. In each phase the Moon is not in the Earth's shadow. We just see part of its lit half.
The Earth's shadow only falls on the Moon in a lunar eclipse, which is rare.

TEACHER NOTE

Year 5 programme of study: describe the movement of the Moon relative to the Earth.

Phases are the result of that movement. One cycle (new Moon to new Moon) is about 29.5 days.

Pictures show the UK view. In the southern half of the world, the lit side is the other way round.