



Earth, Moon, and Sun:

An Astrophotographer's Challenge

Print Materials
(8.5" x 11")



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These materials are based upon work partially supported by the National Science Foundation under grant numbers DRL-1119584, DRL-1417939, ESI-0242733, ESI-0628272, and ESI-0822119. The Federal Government has certain rights in this material. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

These materials are based upon work partially supported by the Institute of Education Sciences, U.S. Department of Education, through Grant R305A130610 to The Regents of the University of California. The opinions expressed are those of the authors and do not represent views of the Institute or the U.S. Department of Education.



Developed by the Learning Design Group at the University of California, Berkeley's Lawrence Hall of Science.

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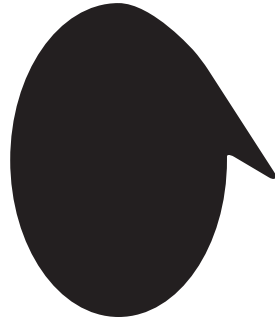
Earth, Moon and Sun
ISBN: 978-1-64333-139-3
AMP.NA18

KEY CONCEPTS AND
VOCABULARY HEADERS
2 CARDS



Key Concepts

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Vocabulary

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KEY CONCEPTS
12 CARDS

**1. The Moon does not make
its own light; the sun
illuminates the Moon.**

2. When a model is “to scale,” object sizes and distances are larger or smaller than in the real world but the same relative to one another. Some models need to be “not to scale” to be useful.

**3. The sun illuminates the
half of the Moon that is
facing it, and the other
half is dark.**

4. Light from the sun travels in straight lines.

**5. From Earth we can only see
the half of the Moon that is
facing us.**

6. Because the Moon moves to different positions around Earth, we see different amounts of the illuminated half of the Moon. This is why we see different phases of the Moon.

7. There is a pattern to the position of the Moon because the Moon orbits around Earth.

8. It takes about one month for the Moon to orbit Earth, so it takes about one month to see the full pattern of moon phases. This pattern repeats with every orbit of the Moon.

**9. During a lunar eclipse,
the Moon is completely
dark because Earth blocks
sunlight from hitting the
Moon.**

10. Lunar eclipses can only happen when Earth is in between the sun and the Moon.

**11. Lunar eclipses do not
happen every time Earth
is in between the sun
and the Moon.**

12. The Moon is only completely dark when the sun, Earth, and the Moon are in a straight line, with Earth in the middle.

VOCABULARY
9 CARDS

moon

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illuminate

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sun

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model

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scale

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moon phase

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orbit

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pattern

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lunar eclipse

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