

HOW BIG AND HOW FAR?—ADDITIONAL DIRECTIONS

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For use with the Remote Learning Resources video on FOSSweb

Investigation 2: Planetary Systems—Part 2: How Big and How Far?

In the video for this part on FOSSweb, you are asked to think about the sizes of the Earth, Moon, and Sun and how far away they are from each other.

The video shows a model of the Earth and Moon and asks you to figure out how far apart they should be.

You can use the measurements provided in the video, but for a more memorable experience, you can make your own physical model at home.

Here is some information to help you find objects at home to use in making your physical model:

- The diameter of Earth is about 4 times greater than the diameter of the Moon.
- A basketball ball (about 24 cm) and tennis ball (about 6 cm) work very well.
- Objects around the home can be traced as well, just make sure the diameter of the Earth model is about 4 times greater than the moon model.

Alternatively, on the next page is a 20 cm circle for the Earth and 5 cm for the Moon.

(Continued on the next page)

Here is a **20 cm circle** for the Earth and a **5 cm circle** for the Moon that you can cut out for your model.

Print at actual size.

Cut outside the line.

