Exercise 08: Animating Changes in Space

In this exercise, you will use the elevation buttons to position yourself above the Earth. From this vantage point, you will use the Time Flow options to animate the movement of the Earth in space.

Instructions:

1. Press the **Home** button.
2. Press the **Increase Elevation** button until you are about 5000 km from Earth.
3. Set the Time Flow Rate to 300x real time. Press the **Run Time Forward** button.

Question: What can you see now that was more difficult when time was set at 1x real time?

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4. Click on the drop arrow menu in the Viewing Location control of the Toolbar.

5. From the list, select **Hover as Earth Rotates**.

Question: Compare the motion before and after you selected Hover as Earth Rotates.

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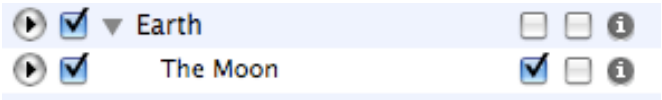
6. Use the Find pane to label the Earth and Moon. Also turn on the Moon's orbit.



7. Press the **Increase Elevation** button until you reach 0.004 au from Earth.
8. Set the Time Flow rate to **hours**. Press the **Run Time Forward** button.

Question: How many days does it take for the Moon to go around the Earth?