


NAME	Lunar Eclipse FAQ
EXAMPLE	<div data-bbox="391 254 982 1012" style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">Lunar Eclipse FAQ</p> <p style="text-align: center;"><small>Courtesy and Copyright* Prof. Patricia Reiff, the Rice Space Institute (*OK for teachers to duplicate for non-commercial educational use) http://space.rice.edu/eclipse</small></p> <ol style="list-style-type: none"> 1. Why does a lunar eclipse only happen during full moon? 2. Why don't we have a lunar eclipse every month? 3. When is the next lunar eclipse? 4. Does the time of the eclipse depend on where on Earth I am? 5. A lunar eclipse is when the Moon moves into the Earth's shadow. What would you see if you were standing on the Moon? 6. Will it look like a solar eclipse as seen from Earth? 7. If it is in the "partial" phase at Earth will it be in the partial phase at the Moon? 8. Why does the Moon turn red during a lunar eclipse? 9. Will all parts of the Moon be the same color? 10. Are all lunar eclipses the same color? 11. What is a selenion? 12. If you were on the Moon, could you see the solar corona during a lunar eclipse? 13. Are lunar eclipses safe to view with the naked eye? <hr/> <p>1. Why does a lunar eclipse only happen during full moon?</p> <p>Only during full moon and new moon is the Moon in a line with the Earth and Sun. If the Earth is in the middle, the Moon is "full" and fully lit by the sun. Only then, if the alignment is perfect, we get <i>lunar</i> eclipses [the Earth's shadow falling on the Moon]; if the Moon is in the middle, the Moon is "new" (we see only the dark side) and, if the alignment is perfect, we get <i>solar</i> eclipses [the Moon's shadow falling on the Earth].</p>  <p>2. Why don't we have a lunar eclipse every month?</p> <p>The plane of the Moon's orbit around the Earth is not exactly the same as the plane of the Earth's orbit around the Sun, so the Earth (as seen from the Moon) generally passes over or under the Sun during times of Full Moon. Only twice a year, when the orbits cross, at the "nodes", are eclipses possible, called "eclipse seasons"; even then, the Moon also has to be in the right place in its orbit to experience an eclipse. There will generally be at least two partial lunar eclipses each year, but there can be more. If there is a total solar eclipse that season, then there must be at least a partial lunar eclipse two weeks earlier or two weeks later.</p> <p style="text-align: center;"><small>Lunar Eclipse FAQ © Patricia Reiff, Rice University http://space.rice.edu/eclipse OK for educational use</small></p> </div>
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