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Astronomy Crash Course Videos

**Crash Course Astronomy #3: Cycles in the Sky** <https://www.youtube.com/watch?v=01QWC-rZcfE>

1. Do stars appear in the same position every night?
2. How many minutes per day does the rise/set time of stars change by?
3. What does the word “planet” mean in Greek?
4. What degrees is the tilt of the Earth’s axis?
5. Draw a picture of the Earth and sun in June/July and December/January. Show sunlight upon the Earth; label where it is summer & where it is winter. Put in the distances to the sun.
6. Why do we have seasons? (Think about length of time the sun shines)
7. Why won’t Polaris (the North Star) always be in the North? (Give details – who – when - where)
8. What has happened to the positions of the stars over the past 20,000 years?

**Crash Course Astronomy #4: Moon Phases** <https://www.youtube.com/watch?v=AQ5vty8f9Xc>

1. Why do we see different phases of the moon.
2. Draw and label the different phases of the moon.

**Crash Course Astronomy #5: Eclipses** <https://www.youtube.com/watch?v=PRgua7xceDA>

1. What is a solar eclipse?
2. What is a lunar eclipse?
3. Draw a diagram of what happens during a solar eclipse. Include the Umbra, penumbra.
4. How long can a total eclipse last?
5. When is the most dangerous time to look at an eclipse?
6. Who can see a solar eclipse?
7. Draw a diagram of what happens during a lunar eclipse. Include the Umbra, penumbra.