1. Objects in the sky appear to rotate around the Earth, what two possible explanations does the video propose for this motion?

2. What solution did the Ancient Greeks propose for this?

3. What was the problem with the Ancient Greek system?

4. How was the Greek model modified to account for the motion of the planets in the night sky?

5. Who proposed an alternative to this Earth Centered model?

6. Who helped perfect this alternative view?

7. How did this new model work?
8. How did Galileo support the Sun Centered model of the Solar System? (What evidence did he use? What technology helped him find this evidence?)

9. In this new model the planets orbit around the Sun. What does this mean about the Earth?

10. Scientists use models that can explain what we see and experience and can predict how things will behave in the future, what happens when we find new information that cannot be explained by our existing models?

11. Describe several examples of things we know now since telescope technology has advanced.

12. What can we say about better tools in science?
Check for Understanding:

Odds talk to odds: Describe the Ancient Greek model of the solar system and stars. Explain why people would think this. What observations would lead a person to think that this is the way the night sky worked. Be prepared to share your explanation.

Observations:

Earth Centered Model (Geocentric Model) says....

Evens talk to evens: The Earth centered model (Geocentric) of the Universe lasted almost 1500 years. Describe how that model changed to the Sun Centered Model (Heliocentric). Who changed it? What evidence supported the new view? Why was it so hard for people to change their view?

Observations/Evidence:

Sun Centered Model (Heliocentric Model) says....