

# **The Reason for the season (Tilt)!**

Teks 7.13 Science concepts. The students knows components of our solar system. The student is expected to:

- (A) Identify and illustrate how the tilt of the Earth on its axis as it rotates and revolves around the sun causes changes in the seasons and the length of a day
- (B) Relate the Earths movement and the moon's orbit to the observed cyclical phases on the moon

- Week 1
- Day 1 Review the make up of the solar system and do pretest to evaluate student knowledge. Grade pretest in class.
  - Day 2 Introduce key vocabulary ie: axis, rotation, revolution, solar system, solstice , equinox, etc.  
Students will define vocabulary word and use word in a complete sentence.
  - Day 3 Lecture students on the reason for the season and show related United Streaming video. Students will complete associated black line master.
  - Day 4 Students will go to computer lab and complete lunar phases web quest.
  - Day 5 Students will construct flip book on lunar phases.
- Week 2
- Day 1 Students will use at least 8 key vocabulary to write short story no less than 1 page. Papers will be graded for science content (by science teacher) and grammatical correctness (by literature teacher).
  - Day 2 Students will complete final draft of short story.
  - Day 3 Students (working in groups of two) will produce 5 min power point to be presented to class that demonstrate knowledge of lunar cycle to include explanation of the reason for the season.
  - Day 4 Complete power point.
  - Day 5 Students will present power point.
- Week 3
- Day 1-3 Students will use the data from the first two weeks to make math equations for use to find proportional relationships.

Day 4 The students will use Scientific Notation to write out distances between planetary objects.

Day 5 Use division to find unit rates such as speed, density, and prices.

Week 4 Make graphs and charts to represent proportional relationships and sequencing.

Week 5 Day 1 Review all material for comprehension test.

Day 2 Test for Science, ELA, Math.