

Khan Season simulator

**Note-when a range of dates is correct, you can just give one of those dates*

1. An AU is the average distance between the earth & sun. When is earth closest & furthest from the sun? Give the date and AU's for both.
 - a. Closest:
 - b. Furthest:
2. Click somewhere on the orbit path, then figure out where earth is on your birthday. How many AU's away is it on that day? _____
3. Watch earth's axis very closely as it revolves a few times around the sun. Does it ever change? _____
4. One revolution of earth takes how many days?

5. Notice that earth is always half yellow and half blue. Which side is always yellow, and why is that? _____

6. What do A, C, and E mean? (*Hint-look at the bottom part of the simulator.*)

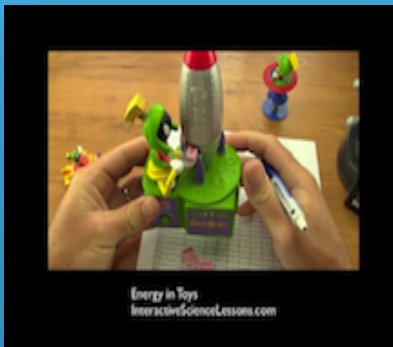
7. What does the yellow light represent?

8. According to this model of earth, on what date...
 - a. Is the Northern hemisphere getting the most direct sunlight? _____
 - b. Is the Southern hemisphere getting the most direct sunlight? _____
 - c. Are both hemisphere getting equal sunlight? (2 dates per year) _____

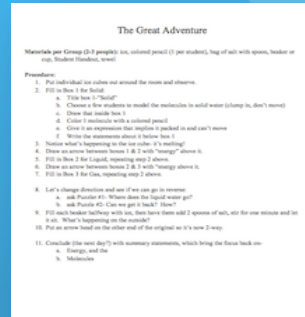
(Questions 9-23 removed from this Preview)

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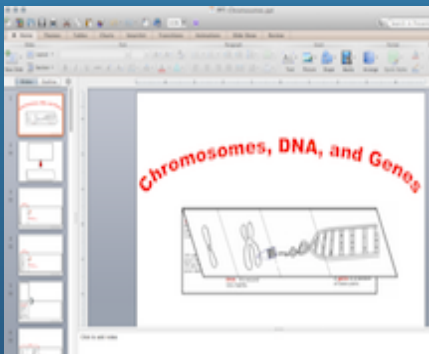
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