

“Friendship is like peeing yourself;  
everyone can see it, but only you get  
the warm feeling it brings.”

Funnyquotes.com

<http://sdbv.missouristate.edu/mreed/CLASS/A115>

**Reading updated: Chapters 4 and 8**

# Clicker quizzes

Expect to begin on Monday. We have 17 to do, 15 of which will count for you.

You can do 2 on paper.

# Baseline: The Earth and Moon



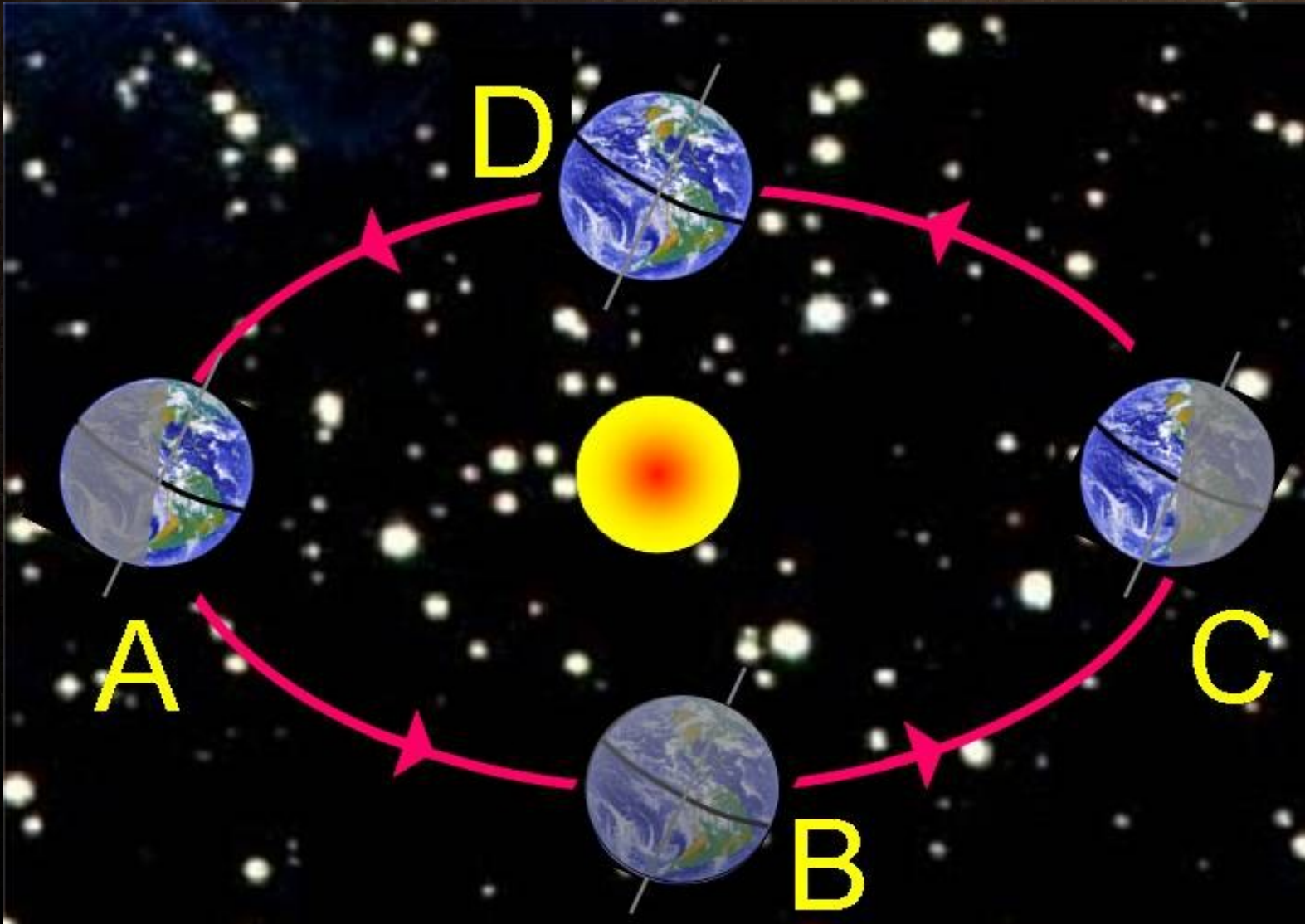
# Definition: Sidereal vs Solar

Sidereal: One complete revolution according to the stars.

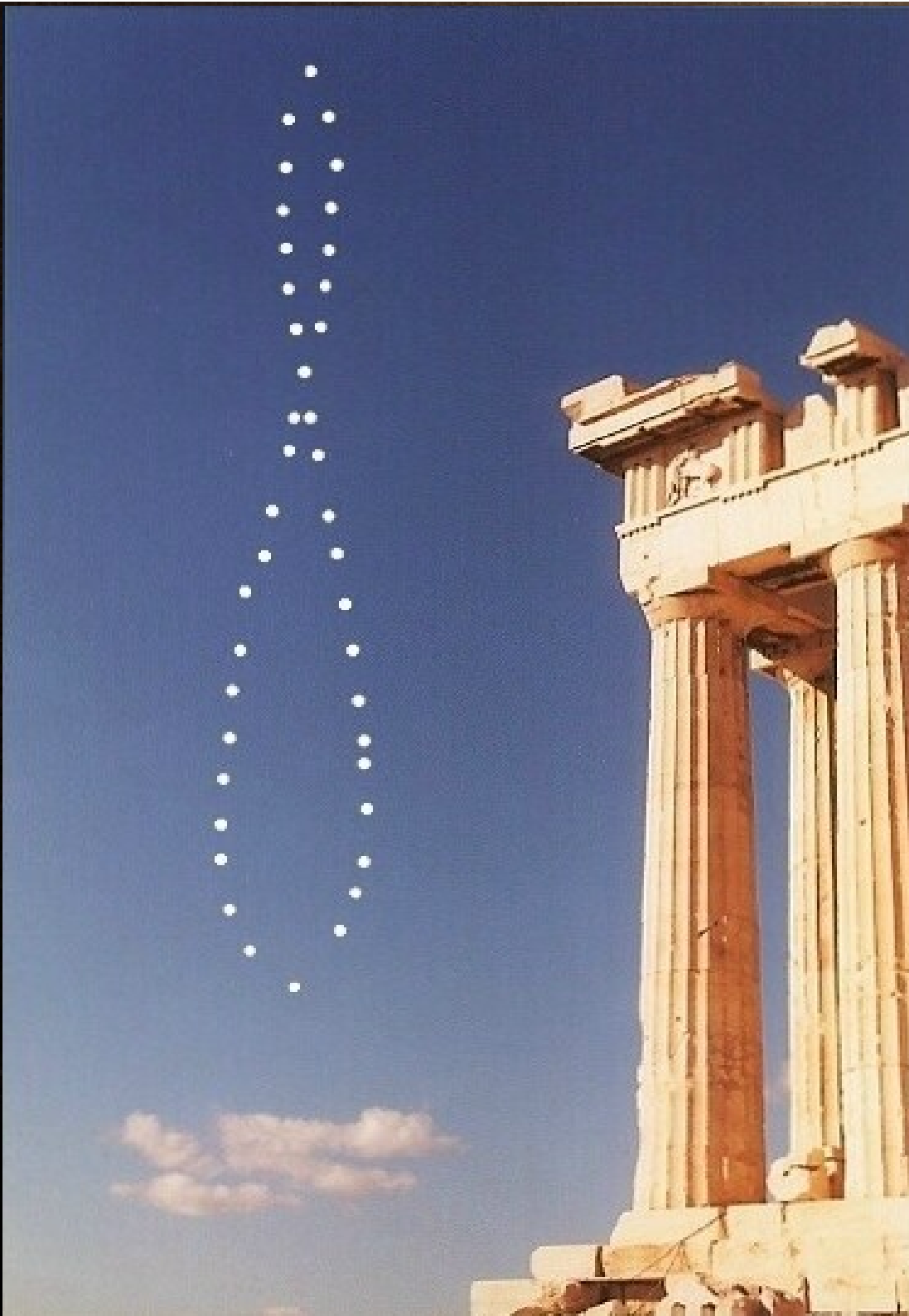
Solar: One complete revolution according to the Sun.

This will be very funky for some planets!

The Earth only goes around 1 star, our Sun. Other stars are much farther away.







If you took a picture of the Sun every day at noon. You would get something like this.

# Earth's Seasons

We all know that summers are hotter than winters- why? **Earth's spin axis is tilted.**





From this picture,  
write down what you  
see and what it  
tells us about the  
Earth







Same here.



# Features we *see* and what they *tell* us.

## Some Examples

Round- means it is massively big.

well-defined features: solid

Fuzzy-swirly features: gas: check with multiple images.

Smooth features: liquid

multiple colors- changes in temperature, composition, and/or altitude. Choose the best one!

**There are always exceptions.**

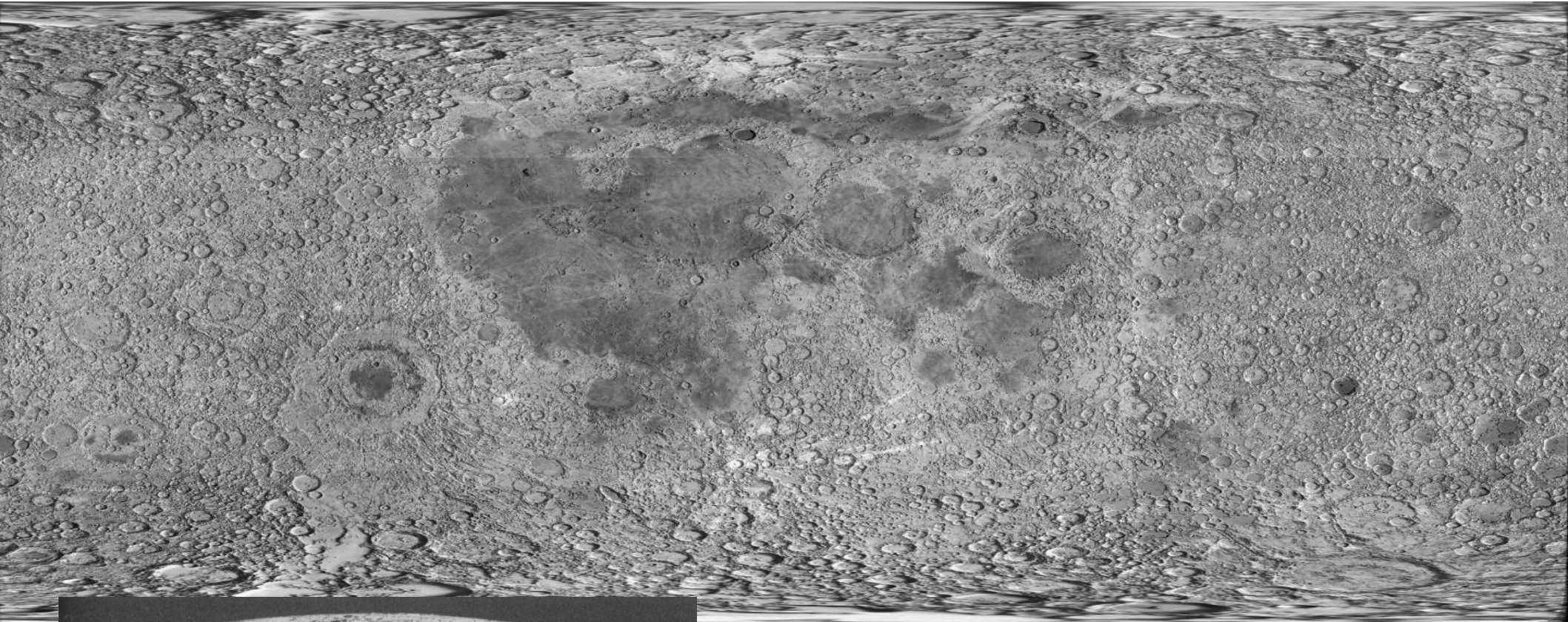




And now for the Moon

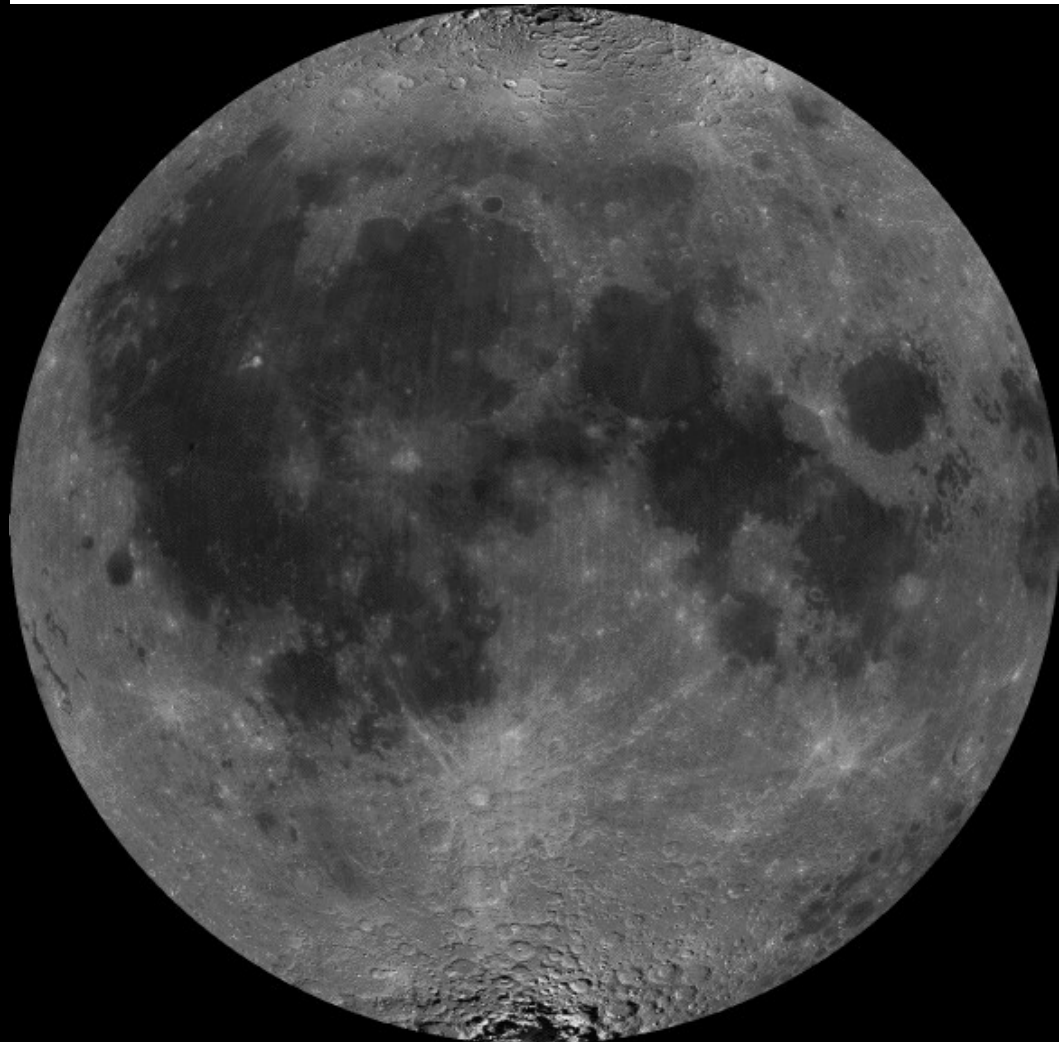








Which body is older, the Earth or the Moon?



Which body is older, the Earth  
or the Moon?

Is there a way to know for sure?

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**Yes, radioactive dating (to be  
discussed)**



Why is the Moon smothered with  
craters, but the Earth isn't?



Why is the Moon smothered with  
craters, but the Earth isn't?

Erosion: resurfacing and weathering.



What are some types of erosion?

# What are some types of erosion?

- Wind
- Rain & water run-off
- Oceans & lakes
- Vegetation
- Plate motions- earthquakes
- Volcanoes