Earth Science - Week at a Glance

Monday	Tuesday	Wednesday	Thursday	Friday
Finish Doppler Slides Graphing Red Shift	Quiz! Coloring red/blue shift	No science	Size and scale notes Cosmos Episode	Astronomers through history

Monday

Tasks

- Bellringer question!
- Finish slides on doppler effect and shifts
- Graphing red shift activity (Due tomorrow)

Success Criteria

I am learning...

- □ ...to identify shifts in spectral lines
- ...to use red shift as a way for tracking galaxies
- ...how sound waves and light waves can be shifted in similar ways

Bell Ringer

If this bright line spectrum is for Hydrogen on Earth. Draw how it would look if it was red shifted.

Hydrogen Emission Spectrum



Homework

Moon journal!
Finish red shift graphing if not done

Moon Phase of the Day

The Moon's current phase for today and tonight is a Waning Gibbous. During this phase the Moon can be seen in the early morning daylight hours on the western horizon. This is the first phase after <u>the Full Moon</u> occurs. It lasts roughly 7 days with the Moon's illumination growing smaller each day until the Moon becomes a Last Quarter Moon with an illumination of 50%. The average Moon rise for this phase is between 9pm and Midnight depending on the age of the phase. The moon rises later and later each night setting after sunrise in the morning.

Tuesday

Tasks

- □ Bellringer question!
- Review graphing red shift activity
- Quiz 1 on universe and scientific method
- □ Colored red/blue shift packet

Success Criteria

I am learning...

- □ ...to identify shifts in spectral lines
- ...to use red shift as a way for tracking galaxies
- ...how sound waves and light waves can be shifted in similar ways

Bell Ringer

In your own words, how can you perceive a red shift or blue shift on a bright line spectra for an element?

Homework

□ Moon journal!

Moon Phase of the Day

Tonight the Moon will be in a Waxing Gibbous phase. Visible through most of the night sky setting a few hours before sunrise. This phase is when the moon is more than 50% illuminated but not yet a Full Moon. The phase lasts about 7 days with the moon becoming more illuminated each day until <u>the Full Moon</u>.



Tasks

Bellringer question!
 Review quiz answers
 Evidence for Big Bang webquest!

Success Criteria

I am learning...

- ...to identify evidence for the big bang
- ...how scientists and astronomers collect/ed evidence to support the big bang theory

Bell Ringer

Explain why the universe was opaque until around 380,000 years after the Big Bang?

Homework

□ Moon journal!

Moon Phase of the Day

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Friday

Tasks

- Bellringer question!
 Time to finish webquest if necessary
- □ Size and Scale slides

Learning Statements I am learning...

- \Box ...to make observations of the moon
- ...to critically think about why the moon changes throughout its cycle
- ...to determine the timeline of the universe

Bell Ringer

What does the cosmic microwave background (CMB) represent?

Homework

Moon journal!Webquest due on Monday

Moon Phase of the Day

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