SEM Final Review Bingo from
Study Guide Answer Key

Solar Eclipse – follow up Q: Why?
What type of Eclipse are you most likely to NOT see.

24 hours
It take this long for the Earth to complete one rotation on its axis.

1 year
It takes this long for the Earth to complete one revolution around the Sun.

Earth's tilt – follow up Q: What causes us to sometimes tilt toward or away?
This is the main reason that we experience seasons.

1 month – follow up Q: how long does it take to complete one rotation on its axis?
This is how long it takes the moon to complete one revolution around the Earth.

Our moon
A theory that states this was created when a Mars-sized asteroid impacted Earth.

Earth's rotation
This causes the sun to appear to rise and set.

Sun's light
Moon gets its light from this.

half-lit
This is what moon looks like from space.

Moon's orbit around Earth
Moon phases are caused by this.

new moon
The phase of the moon during a solar eclipse.

full moon
The phase of the moon during a lunar eclipse.

Umbra
This is the shadow that occurs during a total eclipse.

Penumbra
This is the shadow that occurs during a partial eclipse.

Lunar Eclipse – follow up Q: why don't eclipses occur every month?
This occurs when the Earth's shadow falls on the moon.

Moon's gravity
This pulls on Earth's oceans causing tides to occur.

Neap
This tide occurs when the moon and Sun are right angles from each other.

Spring – follow up Q: what are the phases of the moon during a spring tide?
This tide occurs when the moon, Sun and Earth are lined up.

Higher than normal
During a spring tide, the high tides are this.

quarter moon – follow up Q: what are the quarter moon phases during a neap tide?
This is the phase of the moon during a neap tide.

Sun
Most of the energy on Earth comes from this source.

Uneven heating – follow up Q: examples of types of weather?
This causes weather on Earth.

Sunspots – follow up Q: why should scientists study sunspot activity on the sun?
Cooler areas of gas on the sun's surface are called this.

Solar Flares – follow up Q: what causes solar flares?
Large explosions of energy from the Sun.

Weather
Uneven heating of Earth's surfaces causes this.

Blanket – follow up Q: what are 2 other ways our atmosphere helps us?
Earth's atmosphere keeps our temperatures comfortable and is like this thing.

Surface composition – follow up Q: what are 3 other things that also affect the temperatures on a planet
This affects how warm or cold a planet is; hint: how much heat and light are absorbed or reflected by these things.

Blackouts
This can happen on Earth when there are a lot of sunspot activity on the Sun.

5 billion
How many years the sun will continue to give off light and heat energy.

Moon's tilted orbit
This is why we do not experience eclipses every month.