

NAME: _____

- How many constellations are there, total? _____
- Which of the following is not an official constellation? (HINT: Your book has a list of all of the official constellations!)
 - Orion
 - the Big Dipper
 - Cygnus
 - Antlia
- Approximately how long does it take Earth to complete one orbit around the Sun?
 - 1 day
 - 1 week
 - 1 month
 - 1 year
- Approximately how long does it take the Moon to complete one orbit around the Earth?
 - 1 day
 - 1 week
 - 1 month
 - 1 year
- It is 10 PM and you are looking at the sky to the north. The Big Dipper is directly to the east of the North Star. Where will the Big Dipper be at 4 AM, in relation to the North Star?
 - to the right of it
 - to the left of it
 - above it
 - below it
- Approximately when does a first quarter Moon rise?
 - 6 AM
 - 12 noon
 - 6 PM
 - 12 midnight
- It is midnight and you see the Moon rising in the east. In what phase is it?
 - New
 - 1st quarter
 - Full
 - 3rd quarter
- In what phase of the Moon can a solar eclipse occur? (circle *all* that apply)
 - New
 - 1st quarter
 - Full
 - 3rd quarter
- On what day of the year is Earth's northern hemisphere tipped *most directly* towards the Sun?
 - the summer solstice
 - the fall or autumnal equinox
 - the winter solstice
 - the spring or vernal equinox

For Questions 10 – 12 identify the real motion that is primarily responsible for the observation that is described.

- You go out one night at 10 PM and notice Saturn in the western sky. You go out again at 2 AM and can't find Saturn anywhere.
 - Earth's rotation
 - Earth's orbit
 - the Moon's orbit
 - the orbits of the other planets
- You go out one night at 10 PM and notice Saturn high in the sky. You go out again six months later, also at 10 PM, and can't find Saturn anywhere.
 - Earth's rotation
 - Earth's orbit
 - the Moon's orbit
 - the orbits of the other planets
- You go out one night at 10 PM and notice Mars high in the sky. You go out again one year later, also at 10 PM, and can't find Mars anywhere.
 - Earth's rotation
 - Earth's orbit
 - the Moon's orbit
 - the orbits of the other planets
- A 2nd magnitude star is approximately how many times brighter than a 4th magnitude star?
 - 2.5 times
 - $2.5 + 2.5 = 5$ times
 - $2.5 \times 2.5 = 6.25$ times
- Why is it hotter in the summer than in the winter? (Write a *brief* but accurate answer. Use the back of this sheet if you need more room.)