

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Date: \_\_\_\_\_

## LAB 1: INTRODUCTION TO ASTRONOMY

**Directions:** Complete the attached crossword puzzle using the clues given below. Note two-word answers become one word in the puzzle. You are allowed to use whatever resources you'd like, including the internet. Each completed clue is worth one point. If you have trouble, feel free to ask your TA for help! The total lab is out of 30 points, so there are two points of extra credit available!

### ACROSS

- 2: This object is Roman Vulcan's home in our Solar System
- 3: First seen by Galileo around the 6th planet, these are mostly icy in nature
- 5: Third Rock from the Sun
- 7: His three laws describe orbital motion
- 8: Point on celestial sphere straight above your head
- 9: The real-life Death Star (think Star Wars)
- 12: Hermes is tidally locked to the Sun
- 14: "Space Rocks" that can have moons
- 17: The wanderer
- 18: Naked-eye astronomer famous for his work with supernovae
- 20: From the horizontal coordinate system; word that describes angle from observation to observed
- 25: What can be seen through your eyepiece
- 26: The loneliest "planet," demoted in 2006 to dwarf status
- 29: Regions of magnetic activity on solar surface that cycle every 11 years
- 30: Celestial Equator's longitude
- 31: Open cluster home to seven sisters
- 32: Goddess of love, also the cloudy twin of Earth

### DOWN

- 1: Huygens's cryovolcanic liquid world, where ethane lakes reside
- 4: The "father" of Astronomy
- 6: From the horizontal coordinate system, word that describes angle swept out along horizon from north
- 10: Milky Way's nearest spiral neighbor
- 11: Allows us to view celestial objects larger
- 13: "Father" whose only child is the Heliocentric model
- 15: The celestial equator's latitude
- 16: Our Sun's real name
- 19: Type of telescope that uses mirrors to direct light through reflection
- 21: Part of the telescope through which celestial objects are observed
- 22: King of the gods; be careful, he might "spot" you!
- 23: Greeks called it the "Milky Circle;" Romans the "Milky Road"
- 24: Name for a clump of stars in the sky, usually attached to "open" or "globular"
- 27: The "hunter;" on clear nights, Betelgeuse, Bellatrix, and Rigel can all be seen
- 28: Zeus's Hoth-like moon (think Star Wars)

## Word Bank

Reflector	Sol	Asteroid	Jupiter	Declination
Eyepiece	Pluto	Sunspots	Io	Altitude
Magnification	Rings	Planet	Galileo	Azimuth
Field of View	Europa	Milky Way	Kepler	Zenith
Mercury	Titan	Orion	Tycho Brahe	
Venus	Andromeda	Mimas	Copernicus	
Earth	Cluster	Pleiades	Right Ascension	

## Puzzle

