Pre-lab 3: The Relationships of the Sun, Earth, and Zodiac

This purpose of this pre-lab is to get you thinking about your 'Universal Address.'

First, think about your address on Earth:
What is your
1. City? __________________________
2. County? __________________________
3. State? __________________________
4. Country? __________________________
5. Continent? __________________________

And of course, on the grand scale, you are a citizen of planet Earth.
What about on a grander scale?...

What is the name of the star you orbit? __________________________
What is your planetary system called? __________________________

Consider the farthest planet from the Sun. How many times closer is the Earth to the Sun than this planet? (This involves math… show your work below.)

What is the name of the galaxy whose center your star orbits? __________________________
Does your galaxy have any galaxies orbiting it? Y / N If so, name one below.

What is the name of the cluster of galaxies that your galaxy belongs to? __________________________
Name one of the galaxies in your galaxy cluster (write below)?

What is the name of the supercluster of galaxies that you belong to? __________________________
What other elements of your universal address have been left out, if any?
The Earth’s position is constantly changing with time. Everything in the Universe is in motion, even though, individually, we can’t sense these motions. Now, consider your ‘universal address’ from the front of the page. Each element has an associated motion. For example, your neighborhood on Earth is rotating around the Earth’s axis every 24 hours.

Your turn:
- List as many motions that you are experiencing as a citizen of Earth that you can think of.
- List the speed or orbital time period of at least two of these motions besides the above example.