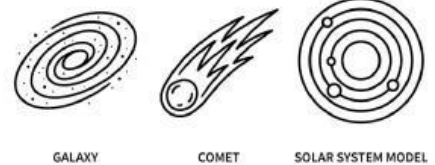


Comp Sci 3 Quiz: Space, Technology, and Models Review Sheet

Name: _____ Date: _____



Hierarchy and Scale of the Universe

- The _____ is the all-encompassing structure that contains all galaxies, stars, solar systems, and matter in existence.
- A _____ is defined as a massive system containing billions of stars, along with gas and dust, held together by gravity.
- Compared to the Milky Way Galaxy, our solar system is vastly _____ in size.
- In order of decreasing size, the cosmic hierarchy moves from the Universe, to a Galaxy, to a _____, and finally to individual stars and planets.
- The universe contains many billions of galaxies, with each galaxy containing many billions of _____.

Measuring Distances in Space

- The average distance from Earth to the Sun is approximately 1 _____ Unit.
- When measuring long distances between planets inside our solar system, the most appropriate unit to use is the _____ Unit.
- A _____ measures the total distance light travels through space over a specific period of time.

Space Technology and Observation

- Space telescopes like Hubble advance our understanding of the universe by using mirrors to gather light and capture clear _____ of distant galaxies.
- Satellites use _____ radiation to detect heat energy, which reveals greater detail on a planet's surface.

Scientific Models

- models help save money and increase safety by eliminating the need to build full-sized _____.
- Models allow scientists to study objects that are either too huge or too tiny by changing the _____ of the objects.
- Scientific models often lack precision because they omit real-world details and are not _____.
- A limitation of flat 2D models is that they often lose the _____ found in 3D objects.