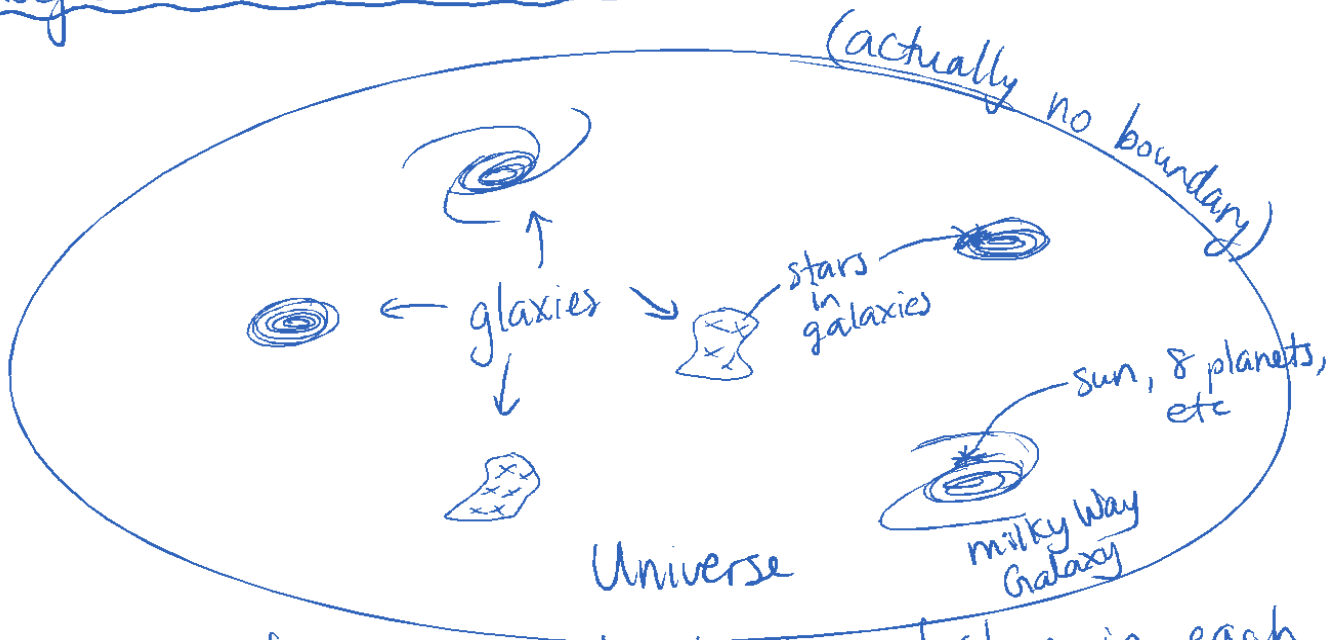


# Diagram of the Universe

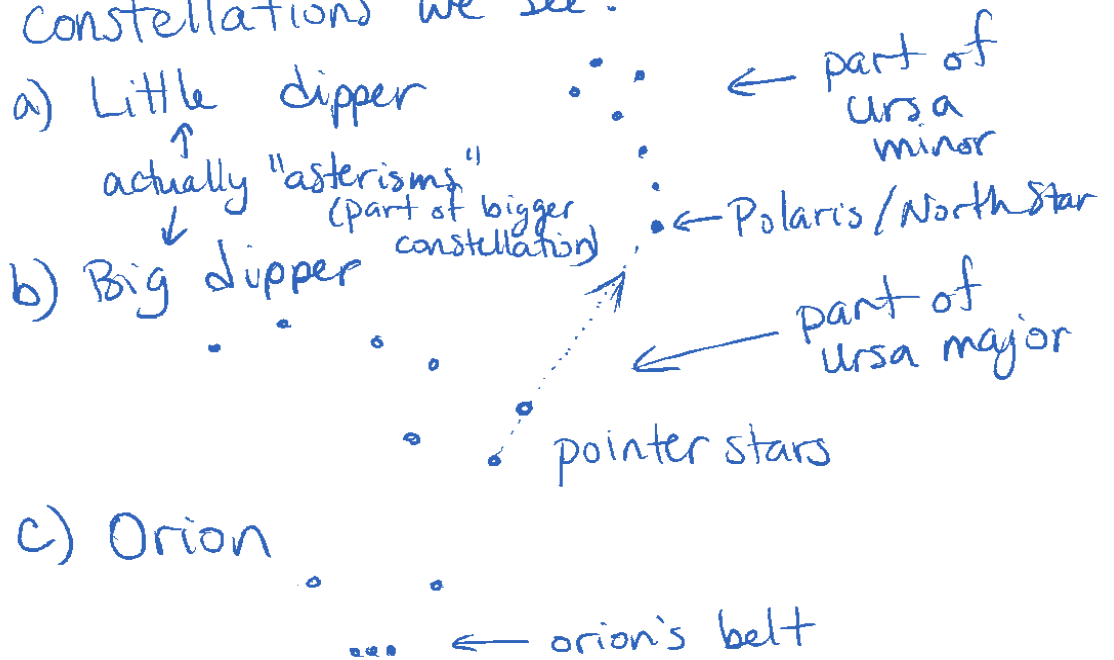


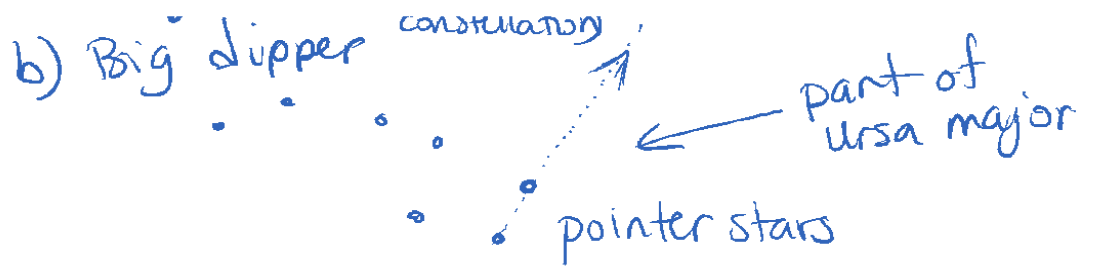
Billions of galaxies with billions of stars in each, and many/most stars have planets orbiting around them.

A. galaxy - a group of billions of stars that are bound together by gravity

constellation - a group of a few points of lights in the sky (stars) that appear to form a picture.

4 constellations we see:





- Constellations used by sailors to navigate
- ⊕ (Earth) rotates from W to E so sky appears to move E to W (sun, moon, stars rise in the E and set in west)
- Circumpolar star trails - point camera at N star, open shutter; N star stays at the centre since our axis of rotation points at it.



- see different constellations at diff times of year due to ⊕'s position around sun.

