

# What is out there?

Using your knowledge of the Universe answer the following questions.

Compare the following terms. What is the difference between them?

- Universe
- Space
- Galaxy
- Stars
- Planets
- Asteroids
- Comets
- Meteors
- Black holes
- Constellations

- ① Name the two lenses used in an astronomical telescope. How do you know how far apart to place these lenses?
- ② Explain why Jupiter's moon is so special.
- ③ Explain the relationship between black holes and stars.

## ★ Challenge

Research how to make a model telescope. Create the model and describe the difference between the view with and without the telescope.

Why do you think a third lens is not used?