

Introduction to ASTR 110L Telescopes

Read: Ridpath & Tirion, pp. 385–392; and any telescope-related sections of your ASTR 110 textbook

1. Know the **following parts** of our reflecting telescopes and their functions:

Base

Tube

Primary mirror

Secondary mirror

“Spider” (secondary mirror support)

Eyepiece

Focuser (knob)

Finder scope

Filter(s)

2. Know the following distinctions:

a. **Reflector vs. Refractor telescope**

b. **“Alt-Az” mount vs. Equatorial mount**

3. a. On our “8-inch Dobsonian” telescopes, **which part** is 8 inches?

b. What advantages does an **8-inch** telescope have over a **4-inch** telescope? In what ways does it *not* have advantages?

c. What does a **“Dobsonian”** design refer to?

4. What does the **number of millimeters** on different **eyepieces** refer to? How is the **view** through a long-focal-length eyepiece different from that through a short-focal-length eyepiece?

