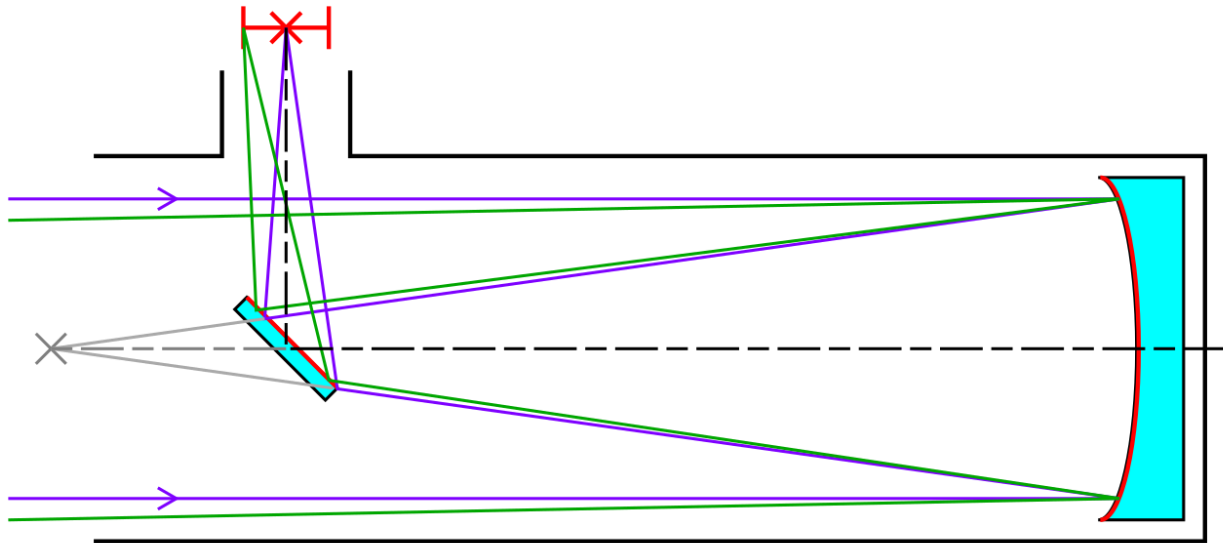


Telescopes and Cameras Week Two

Name:

This week we will be continuing to experiment with telescopes. Last week we worked with refracting telescopes, telescopes built around lenses, for the most part. Now we'll be looking at a telescope built with mirrors and comparing the imaging capabilities of our cell phones. Time permitting, we can experiment with catadioptric telescopes, telescopes with combinations of lenses and mirrors.



The telescope we are going to work with today is the Newtonian telescope. Essentially a mirror is placed near the focal plane of a curved mirror. This offsets the image formed to a location that is able to be observed by the user. To magnify the image you will need to add an eyepiece. A simple convex lens will do.

