## Telescopes

- 1. Refracting telescopes focus light on the other side of the lens.
- 2. Because lens vertically inverts image, a second lens has to reverse the image back the way it was.
- 3. Different colors of light will focus at different points; the focus of blue is different than the focus of red.
- 4. Telescope cannot be in focus for all colors at the same time, which is a disadvantage.
- 5. Most modern telescopes are reflecting because of this limitation.
- 6. The color deficiency is know as chromatic aberration.
- 7. Cost is also a factor because a reflecting telescope is cheaper.
- 8. It is easier to support a large mirror than a lens; a lens could only be supported by the rim of it, while a mirror can be supported in the back.
- 9. The law of reflection says that when light hits a mirror, the incident angle = reflected angle.
- 10. A concave mirror curves inward and a convex mirror curves outward.
- 11. A concave mirror on a reflecting would leave a image upside down by itself.
- 12. Since focus is in front of mirror, it is an inherent problem.