

*Light & Telescopes*

- Galileo Galilei discovered new things about the following objects using a telescope. Explain what he saw and why it was significant.
  - The Moon
  - Jupiter
  - Venus
- What are Figures 3-1 and 3-2 showing you?
- Draw a diagram to explain how light moves through the following types of telescopes
  - Refracting
  - Newtonian (also known as Reflecting)
  - Cassegrain
- What is the big deal about Yerkes Observatory in Wisconsin?
- What is so special about the volcano Mauna Kea in Hawaii and telescopes?

*Wide-Field Telescopes*

- How do filters give you color images of objects in the sky?  
(*Figures 3-19 & 3-20*)

*The Hubble Space Telescope*

- Describe the problem that initially occurred with the Hubble Space Telescope, and how it was corrected.

*Solar Telescopes & Outside the Visible Spectrum*

- Describe the light each type of telescope is able to see
  - Chandra Observatory
  - Compton Observatory
  - FUSE
  - SOFIA
  - WMAP
  - Arecibo, Puerto Rico
  - Green Bank

*A Closer Look – A Night at Mauna Kea*

- Outline your trip to Mauna Kea for an “observing run”.

*The First Telescopes for Astronomy*

- Galileo Galilei discovered new things about the following objects using a telescope. Explain what he saw and why it was significant.
  - The Moon
  - Jupiter
  - Venus
- What are Figures 3-1 and 3-2 showing you?

*How Do Telescopes Work?*

- Draw a diagram to explain how light moves through the following types of telescopes
  - Refracting
  - Newtonian (also known as Reflecting)
  - Cassegrain
- What is the big deal about Yerkes Observatory in Wisconsin?

*Modern Telescopes*

- What is so special about the volcano Mauna Kea in Hawaii and telescopes?

*Wide-Field Telescopes*

- How do filters give you color images of objects in the sky?  
(*Figures 3-19 & 3-20*)

*Glorious Hubble After Initial Trouble*

- Describe the problem that initially occurred with the Hubble Space Telescope, and how it was corrected.

*You Can't Look at the Sun at Night & How Can You See the Invisible?*

- Describe the light each type of telescope is able to see
  - Chandra Observatory
  - Compton Observatory
  - FUSE
  - SOFIA
  - WMAP
  - Arecibo, Puerto Rico
  - Green Bank, West Virginia

*A Closer Look – A Night at Mauna Kea*

- Outline your trip to Mauna Kea for an “observing run”.