

Module 4 Optical Instruments



What this module is about

In the previous modules, you learned about the properties of light. You also learned how images are formed by mirrors and lenses. Now it is time to apply these ideas to some common optical lenses and to show how such devices work.

In this module you will study different optical instruments in the following lessons:

- Lesson 1 – The Human Eye and the Camera
- Lesson 2 – Microscopes and Telescopes
- Lesson 3 – Laser and Holography



What you are expected to learn

After going through the module you are expected to:

1. identify the parts of a human eye;
2. discuss the different eye defects and how lenses correct these defects;
3. compare the similarities and differences between the principle of the camera and the human eye;
4. show using ray diagrams how images are formed in a telescope and a microscope; and
5. explain the principle of a hologram.



How to learn from this module

Here is a simple guide for you in going through the module:

1. Read and follow the instructions carefully
2. Answer the pretest before you start the lessons.
3. Check your answers against the key to answers provided at the last page of the

Module 4 Optical Instruments

SB Merriam



Module 4 Optical Instruments:

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