

7th Grade Life Science

Light & Sound - Study Guide:

Test: 4-23/24-08

Understand the meanings of the following Key Science Words/Terms:

Wave, medium, frequency, hertz, wavelength, eardrum, cochlea, hammer/anvil/stirrup, outer ear, inner ear, electromagnetic spectrum, radiation, transparent, translucent, opaque, reflection, refraction, eye, tongue, retina, cone and rod cells, optic nerve, cornea, iris, lens, pupil, nearsightedness, farsightedness.

Textbook pages:

1. What is a wave? Know how sound waves are produced and how they travel. Be able to describe the characteristics of a wave, namely frequency and wavelength. Pp 423-430
2. Be able to describe the structure and function of the ear and explain how we hear sounds. Pp 432-437
3. Know what an electromagnetic wave is and be able to describe the spectrum of electromagnetic radiation. Know the range of the types of EM waves and their basic characteristics/uses. Pp453-461
4. Explain how light is absorbed, transmitted, reflected and refracted. Know how the type of material determines whether or not and how it transmits light. Understand the 3 main categories of materials; transparent, translucent and opaque. Pp 468-473
5. Be able to describe how the eye sees light and identifies color. Know the primary colors of light and understand how the color of objects is affected by the color of light it receives. Pp 475-481
6. You must be able to label the parts of the eye and know their function. Know how the eye focuses light to see an image. Describe how corrective lenses are used to improve vision. Pp 518-522
7. Review the chapter summaries, vocabulary and questions.

Some helpful strategies for studying:

- Write summaries of all the key points.
- Use Flash cards for vocabulary practice.
- Create drawings and tables to help compare and contrast.
- Practice questions in the review section.
- Work with a friend and discuss the information.
- Check with your teacher on anything you are not clear about.
- Try to attend the morning review class.
- Practice drawing and labeling key organs