**Introduction to light:** Light and the electromagnetic radiation spectrum. Wave and particle-like behavior, and how to calculate the wavelength or frequency of a light wave.  Created by Sal Khan.

<https://www.khanacademy.org/science/chemistry/electronic-structure-of-atoms/bohr-model-hydrogen/v/introduction-to-light>

**Introduction to Photonics:** We are in a Photonics Revolution! By Dr. Cheryl Schnitzer of Stonehill College!

<https://www.youtube.com/watch?v=vYxjS0bGuCM>.

**Introduction to Lasers:** Lasers have some unique properties that make them the preferred source of light in Photonics.  Let's learn about the important concepts that enable a laser in this video.

<https://www.youtube.com/watch?v=1LmcUaWuYao>

**AIM Photonics Videos:** All you ever wanted to know about photonics.

<https://aimphotonics.academy/videos>

**Laser fundamentals:** From MIT, Understanding Lasers and Fiber Optics

Basics: <https://youtu.be/saVE7pMhaxk>

More advanced topics:

<https://www.youtube.com/watch?v=urbZ8CTceu0>

<https://www.youtube.com/watch?v=_qixt0NLc9I>

**How Lasers Work: A Complete Guide**

<https://youtu.be/_JOchLyNO_w>

**Spectroscopy: Interaction of Light and Matter:** Chemists study how different forms of electromagnetic radiation interact with atoms and molecules. This interaction is known as spectroscopy. Just as there are various types of electromagnetic radiation, there are various types of spectroscopy depending on the frequency of light we are using.

<https://www.khanacademy.org/science/chemistry/electronic-structure-of-atoms/bohr-model-hydrogen/v/introduction-to-light>

**Periodic Table Explained:**

<https://youtu.be/uPkEGAHo78o>

**A Basic Introduction to Fiber Optics:**

<http://www.synginc.com/docs/Fiber_Optics.pdf>