

# Grade 8

## Inspecting the Spectrum



Our world is one filled with color. Although colors are easily observed and often appreciated, understanding their existence is often a challenge. While “inspecting the spectrum” students explore the behavior of light by observing and analyzing various examples of refraction and diffraction. The characteristics of waves including crests, troughs, and wavelengths are introduced and modeled in a variety of ways.

Students participate in research using the Internet and other resources to develop a product that explains why we see color. As a team, students design and conduct a testable investigation based upon one of their own inquiries involving light. During these learning experiences, students continue to develop their understandings about the behavior of light as it encounters different materials and sometimes produces a spectrum of spectacular colors.

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