

# Beets Bleed Red, but Chemists Turn It Blue

## Student Discussion Worksheet

**Directions:** After discussing with your class how visible light and chemical structures relate to color, you will pair up with a partner and watch "[The Chemistry of Color](#)" video. The video describes the sources and applications of pigments. Discuss the questions below with your partner before using the research prompt to report on a pigment of your choice. Finally, be prepared to present your findings to the class.

Where do pigments come from? Give as many examples as possible.

How are pigments used?

Research prompt: Either using an example given in the video, or based on your own search, choose a natural or synthetic pigment to research. Draw your pigment's chemical structure (be sure to show all of its elements and indicate the bonds between them). Determine how your pigment interacts with light and explain what colors of visible light it absorbs and reflects. Describe where the pigment comes from and how it is used.

