

Crosscutting Concepts

Scale, Proportion, and Quantity

- Natural objects exist from the very small to the immensely large. (5-PS1-1)

Students develop an understanding that the molecules in an acid and a base interact with the molecules of the indicator to produce a color change that students can see. Students see that their macroscopic observations of a color change can be explained on the sub-microscopic molecular level.

Cause and Effect

- Cause and effect relationships are routinely identified, tested, and used to explain change.

Students develop an understanding that the molecules in an acid and a base interact with the molecules of the indicator to cause a color change.