

8th grade lesson overviews

Teachers in this grade level will receive three modules: *FOSS Heredity and Adaptation*, *STC Weather and Climate* and *STC Matter and Its Interactions*. In *FOSS Heredity and Adaptation* students investigate the diversity of life on Earth and the fossil record. They learn about the basis of heredity, chromosomes and genes and how genetic variation arises in populations. In *STC Weather and Climate* students investigate what drives weather as it relates to uneven heating on Earth and how the temperature of the Earth's surface affects the movement and temperature of the air above it. Students examine the relationship between air pressure and weather and what conditions are necessary for the formation of storms. Students investigate ocean currents and the conditions under which the ocean gains and loses heat energy. In *STC Matter and Its Interactions* students make observations about matter, investigate its physical and chemical changes, and develop and use models to describe its composition and behavior.