



“Hot Planet, Cool Solution” Classroom Activity Connections to the California Science Content Standards (Grades 4 through 7)

Grade Four

- 6. c. Formulate and justify predictions based on cause-and-effect relationships.
- 6. d. Conduct multiple trials to test a prediction and draw conclusions about the relationships between predictions and results.

Grade Five

- 6. f. Select appropriate tools (e.g., thermometers, meter sticks, balances, and graduated cylinders) and make quantitative observations.
- 6. g. Record data by using appropriate graphic representations (including charts, graphs, and labeled diagrams) and make inferences based on those data.
- 6. h. Draw conclusions from scientific evidence and indicate whether further information is needed to support a specific conclusion.

Grade Six

- 4. a. Students know the sun is the major source of energy for phenomena on Earth’s surface; it powers winds, ocean currents, and the water cycle.
- 6. a. Students know the utility of energy sources is determined by factors that are involved in converting these sources to useful forms and the consequences of the conversion process.
- 7. a. Develop a hypothesis.
- 7. b. Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to perform tests, collect data, and display data.
- 7. e. Recognize whether evidence is consistent with a proposed explanation.



Grade Seven

6.f. Students know light can be reflected, refracted, transmitted, and absorbed by matter.

7.a. Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to perform tests, collect data, and display data.

7.c. Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from scientific evidence.