

Science 9 - Unit 3—Physics and Astronomy
Unit Outline

Topic	Activity
Review of Forms of Energy	List, define and give examples of the ten different forms of energy. See page 386-387 of Science Probe.
Forces	Brief Class Notes on Forces, Friction, Force of Gravity and Measuring Forces. See pages 411-413 of Science Probe. Activity 19B—The Force of Gravity Eureka Video on Mass and Weight Worksheet 3-1—Converting Mass to Force of Gravity Review 19.1—Questions 1-7 on page 414 of Science Probe.
Work	Class Notes on the Definition of Work and Calculating Work Done. See pages 414-416 in Science Probe. Review 19.2—Questions 1-5 on page 417 of Science Probe. Activity 19D—Doing Work With a Ramp
Simple Machines and Mechanical Advantage	List the Functions of Machines. See page 419 of Science Probe. Class Notes on Mechanical Advantage. See page 420 of Science Probe. Do Review 19.3 on p. 421 of Science Probe Class Notes and Demonstrations of Simple Machines. See pages 421-427 Activity 19E—Identifying and Using Simple Machines. You will move from station to station, examining different examples of simple machines. Activity 19F—Pulley Systems Review 19.4—Questions 1-7 on page 429 of Science Probe.
Efficiency	Class Notes on Efficiency. See pages 431-432 of Science Probe. Review 19.5—Questions 1-4 on page 432 of Science Probe
Review and Test	Review and Test on Energy, Work and Simple Machines

Topic	Activity
The Solar System	Do Worksheet 13-1—The Solar System
Stars and the Universe	Video on the Solar System Library Research Project on a Topic in Astronomy