

ENERGY & WAVES PHYSICS LAB 101

APPLIED SCIENCES

Designed For Students:
 Grades 3rd-5th
 Ages 8-11

Program Length:
 3 hours

Park:
 Disneyland® Park
 in California

Standard 8. Understands the structure and properties of matter

Grade 3-5

- Knows that matter has different states (i.e., solid, liquid, gas) and that each state has distinct physical properties; some common materials such as water can be changed from one state to another by heating or cooling
- Knows that materials may be composed of parts that are too small to be seen without magnification

Standard 9. Understands the sources and properties of energy

Grade 3-5

- Knows that heat is often produced as a byproduct when one form of energy is converted to another form
- Knows that light can be reflected, refracted, or absorbed
- Knows that the pitch of a sound depends on the frequency of the vibration producing it

Standard 11. Understands the nature of scientific knowledge

Grades 3-5

- Knows that although the same scientific investigation may give slightly different results when it is carried out by different persons, or at different times or places, the general evidence collected from the investigations should be replicable by others

Standard 12. Understands the Nature of Scientific Inquiry

Grade 3-5

- Knows that scientific investigations involve asking and answering a question and comparing the answer to what scientists already know about the world
- Plans and conducts simple investigations