

## 6<sup>th</sup> Grade Science Standards

Code	Description
1a	Evidence of plate tectonics is derived from the fit of the continents.
2a	Students know water running downhill is the dominant process in shaping the landscape, including California's landscape.
2b	Students know rivers and streams are dynamic systems that erode, transport sediment, change course, and flood their banks in natural and recurring patterns.
2c	Students know beaches are dynamic systems in which the sand is supplied by rivers and moved along the coast by the action of waves
2d	Students know earthquakes, volcanic eruptions, landslides, and floods change human and wildlife habitats
3a	Energy can be carried from one place to another by heat flow or by waves, including water, light and sound waves, or by moving objects.
4a	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.
4b	Students know solar energy reaches Earth through radiation, mostly in the form of visible light.
4c	Students know heat from Earth's interior reaches the surface primarily through convection.
5a	Students know energy entering ecosystems as sunlight is transferred by producers into chemical energy through photosynthesis and then from organism to organism through food webs.
5b	Students know matter is transferred over time from one organism to others in the food web and between organisms and the physical environment.
5c	Students know populations of organisms can be categorized by the functions they serve in an ecosystem
5d	Students know different kinds of organisms may play similar ecological roles in similar biomes.
5e	Students know the number and types of organisms an ecosystem can support depends on the resources available and on abiotic factors, such as quantities of light and water, a range of temperatures, and soil composition.
6a	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.
7a	Develop a hypothesis.
7b	Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to

perform tests, collect data, and display data.

- 7c Construct appropriate graphs from data and develop qualitative statements about the relationships between variables.
- 7d Communicate the steps and results from an investigation in written reports and oral presentations.
- 7e Recognize whether evidence is consistent with a proposed explanation.