



Cooking with the Sun - Curriculum Connections

Suggested Grades: K-6

Curriculum Connections: Matter (Gr 1, 2, 6), Energy (Gr 2, 5, 6), Earth Systems (K, 1, 3, 4, 6), Living Systems (Gr 2), Computer Science (K-1)

Specific Learning Outcomes:

Kindergarten

- *Earth Systems* - Children examine and describe surrounding environments (changes related to temperature, sunlight).
- *Computer Science* - Children interpret instructions in various environments.

Grade 1

- *Matter* - Students analyze properties of objects and investigate how they can be changed (measurements, e.g., size of oven).
- *Computer Science* - Students follow instructions and relate them to outcomes.

Grade 2

- *Matter* - Students investigate properties of materials and relate them to a purpose (combine materials to create an object for a purpose, transparency in oven materials, natural vs processed materials).
- *Energy* - Students investigate the behaviours of light and sound (the Sun as a source of light).
- *Living Systems* - Students investigate the growth and development of plants and animals and consider their relationship to humans (human behaviours affect plants and animals, e.g., climate change).

Grade 3

- *Earth Systems* - Students analyze changes in Earth's surface and explain how its layers hold stories of the past (Earth is warming up from natural and human causes).

Grade 4

- *Earth Systems* - Students investigate the systems of Earth and reflect on how their interconnections sustain life (Earth's surface is warmed by the Sun, conservation of electricity).



Grade 5

- *Energy* - Students investigate and compare how forces affect living things and objects in water and air (renewable, e.g., solar, and nonrenewable resources).

Grade 6

- *Matter* - Students investigate the particle model of matter in relation to the physical properties of solids, liquids and gases (heat is when particles get excited, hot objects expand / cool objects contract).
- *Energy* - Students investigate energy resources and explain factors that influence their use (management of energy resources, processed vs unprocessed energy resources).
- *Earth Systems* - Students investigate climate, changes in climate, and the impact of climate change on Earth (impact of climate change, greenhouse effect).