3 Tech 2020 - Effects of Technology on the Natural World

Content Area: **Technology**
Course(s):   **Technology Education 8, Technology Education 1**
Time Period: **Marking Period 1**
Length: **10 days**
Status: **Published**

Established Goals/Standards

Please choose the appropriate Goals/Standards from the Standards tab above.

CS.3-5.8.2.5.ETW.1	Describe how resources such as material, energy, information, time, tools, people, and capital are used in products or systems.
CS.3-5.8.2.5.ETW.2	Describe ways that various technologies are used to reduce improper use of resources.
CS.3-5.8.2.5.ETW.3	Explain why human-designed systems, products, and environments need to be constantly monitored, maintained, and improved.
CS.3-5.8.2.5.ETW.4	Explain the impact that resources, such as energy and materials used to develop technology, have on the environment.
CS.3-5.8.2.5.ETW.5	Identify the impact of a specific technology on the environment and determine what can be done to increase positive effects and to reduce any negative effects, such as climate change.
CS.3-5.ETW	Effects of Technology on the Natural World
	The technology developed for the human designed world can have unintended consequences for the environment. Technology must be continually developed and made more efficient to reduce the need for non-renewable resources.

Essential Questions

Please add your Essential Questions by clicking on the Lists tab above.

- How can we ensure positive effects are increased while negative effects are reduced?
- What impact does technology have on the natural world?
- What resources are used by technology?

Enduring Understanding

Please add your Enduring Understandings by clicking on the Lists tab above.

- Technology has both positive and negative effects on the natural world.
- Technology uses resources from the natural world and some of them are non-renewable.

Content

- The use of technology may affect the environment positively or negatively.

- Some technological decisions put environmental and economic concerns in competition with one another, while others have positive effects for both the economy and the environment.
- Reusing, recycling, and using fewer resources can reduce environmental impacts.
- Resources such as oceans, fresh water, and air, which are shared by everyone, need to be protected by careful planning and regulation of technological systems.
- Some technologies can reduce the negative impacts of other technologies.
- Sustainable solutions are those that meet the needs of the present without compromising the ability of future generations to meet their own needs

Modifications and Accommodations

Accommodations and Modifications according to student IEP, 504, I&RS goals, and/or gifted status

Resources

Please add your Resources by clicking on the Lists tab above.

- BrainPOP
- Teacher developed presentations