

**Curriculum Unit  
Title**

Trades in Action - Powering Our Future

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**KEY LEARNING, ENDURING UNDERSTANDING, ETC.**

Energy production and consumption has changed throughout history; humanity will need to shift how energy is accessed to meet growing consumption demands.

**ESSENTIAL QUESTION(S) for the UNIT**

- How has human energy consumption changed over time and what might have prompted these changes?
- What are the alternative fuels currently available to society?
- How can the technical trades be applied to alternative energy sources?
- How does the amount of carbon dioxide emitted vary based upon the fuel source used by society?
- Which alternative energy sources would be most appropriate to power a school and why?

**CONCEPT A**

Alternative Energy Resources

**CONCEPT B**

Technical Trade Relevance

**CONCEPT C**

Develop an Energy Solution

**ESSENTIAL QUESTIONS A**

How has human energy consumption changed over time and what might have prompted these changes?

What are the alternative fuels currently available to society?

How does the amount of carbon dioxide emitted vary based upon the fuel source used by society?

**ESSENTIAL QUESTIONS B**

How can the technical trades be applied to alternative energy sources?

**ESSENTIAL QUESTIONS C**

Which alternative energy sources would be most appropriate to power your school and why?

**VOCABULARY A**

Renewable resources	Geothermal
Non-renewable resources	Biomass
Alternative energy	Hydroelectric
Solar Power	Fossil Fuels
Wind turbines	Nuclear Power

**VOCABULARY B**

See "A".

**VOCABULARY C**

See "A".

**ADDITIONAL INFORMATION/MATERIAL/TEXT/FILM/RESOURCES**