**Trades in Action - Powering Our Future**

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**

- 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?

### CONCEPT B

**Technical Trade Relevance**

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

### CONCEPT C

**Develop an Energy Solution**

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

### VOCABULARY A

- Renewable resources
- Non-renewable resources
- Alternative energy
- Solar Power
- Wind turbines

- Geothermal
- Biomass
- Hydroelectric
- Fossil Fuels
- Nuclear Power

See “A”.

### VOCABULARY B

See “A”.

### VOCABULARY C

See “A”.

### ADDITIONAL INFORMATION/MATERIAL/TEXT/FILM/RESOURCES