Science 7 Earth’s Crust and Resources Unit

Big Idea: **How on earth did the soil form?**

Outcome:

EC7.2 Identify locations and processes used to extract Earth’s geological resources and examine the impacts of those locations and processes on society and the environment.

Understandings:

 Rocks and minerals have unique properties.

Saskatchewan has many mineral resources that we mine with various technologies.

Mining involves many economic and environmental issues.

There are many careers related to mining.

Essential questions:

1. How can rocks and minerals be classified?
2. Where, how and what kind of mining occurs in Saskatchewan?
3. What technologies are used in mining?
4. What are the issues surrounding mining?
5. What uses are there for minerals?
6. What careers are related to mining?

Students need to know: (essential questions they are related to are in brackets)

 How to classify rocks and minerals (1)

 Where minerals are located in Saskatchewan (2)

 How minerals are mined in Saskatchewan (2)

 What technologies are used in mining (3)

 Canadian contributions to mining (3,4, 6)

 What we use minerals for (5)

And be able to: (essential questions they are related to are in brackets)

 -Identify questions to investigate about minerals/mining (1,2,3,4,5,6)

 -Distinguish between and classify rocks and minerals (1)

 -Identify locations of minerals and their primary uses (2)

 -Relate processes of mining to each type of mineral (2, 3, 4)

 -Provide examples of technologies (3)

 -Evaluate different mining approaches (4)

 -Provide examples of Canadian contributions and careers (6)

 -Identify uses for minerals (5)

 -Suggest solutions to mining issues (4)