**North East School Division**



**Unpacking Outcomes**

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| **Harvesting the Outcome** | | | **BIG IDEAS** | |
| **ES3.2 Analyze the interdependence between soil and living things, including the importance of soil for individuals, society, and all components of the environment.** | | |  | |
| **Outcome** (circle the verb and underline the nouns or noun phrases) | | | | |
| **Analyze** → interdependence between soil and living things  **Analyze** → importance of soil for individual, society and all components of the environment. | | | | |
| **KNOW BEFORE UNIT** | **KNOW AFTER UNIT** | **UNDERSTAND** | | **BE ABLE TO DO** |
| - the characteristics of different soils including composition, color, texture, and the ability to absorb water. (ES3.1) | - plants and animals depend on soil  - ways that individuals and communities can reduce erosion  - how we treat the soil affects plants, animals and all components of the environment | - examine the interdependence between animals and the soil  - ways FNM and other cultures value and use soils  - the effects of moving water on soil  - ways that humans affect the soil both positively and negatively  - soil is important to humans in many ways | | - examine the interdependence between animals and soil  - examine the interdependence between plants and soil  - design and carry out an experiment to determine the effects of moving water on different soil types  - research careers that involve an understanding of soils |
| Vocabulary:  - interdependence  - aerate  - berms  - erosion | - contamination  - compaction  - composting |
| **Essential Questions** | | | | |
| **How do different cultures value and use soils?**  **Why is soil important to you?**  **How do we affect the soil both positively and negatively?**  **What are the effects of moving water on soil and how can we reduce the effects?**  **How are plants and soils interdependent?**  **How are animals and soils interdependent?**  **How does soil type influence the plants that grow in the environment?** | | | | |