**North East School Division**



**Unpacking Outcomes**

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| **Harvesting the Outcome** | | | **BIG IDEAS** | |
| **ES3.1 Investigate the characteristics, including soil composition and ability to absorb water, of different types of soils in their environments.** | | |  | |
| **Outcome** (circle the verb and underline the nouns or noun phrases) | | | | |
| **Investigate** → characteristics of different soils - soil composition, ability to absorb water | | | | |
| **KNOW BEFORE UNIT** | **KNOW AFTER UNIT** | **UNDERSTAND** | | **BE ABLE TO DO** |
| - how to make a bar graph  - where soil is found | - soil is made up of many things  - how to conduct a fair experiment  - how to measure water absorption | - soils from different locations have different compositions and characteristics  - soil composition affects the physical properties of the soil including its water absorption  - an experiment must be fair in order to come up with a conclusion | | - make predictions about characteristics and compositions of soil samples  - examine physical characteristics of soil from different locations  - classify soils in many ways  - collect and display data showing water absorption  - communicate information about water absorption experiments in many ways  - perform personal investigations to answer questions posed at the start of the unit |
| Vocabulary:  - particle size  - texture  - moisture  - particle size distribution  - filter | - physical characteristics  - composition  - absorption  - clay  - silt  - loam |
| **Essential Questions** | | | | |
| **Why is water absorption important?**  **How can you sort soil?**  **How do you know an experiment is fair?**  **How does soil composition relate to water absorption?**  **Why do different environment have different soils?** | | | | |