**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?** |