**North East School Division**



**Unpacking Outcomes**

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| **Harvesting the Outcome** | **BIG IDEAS** |
| **SM3.2 Assess the function and characteristics of strong, stable and balanced natural and human-built structures.** | **What is it made of?****How can I make it better?** |
| **Outcome** (circle the verb and underline the nouns or noun phrases)  |
| **Assess** → the function of strong, stable and balanced natural and human-built structures.**Assess** → the characteristics of strong, stable, and balanced natural and human-built structures. |
| **KNOW BEFORE UNIT** | **KNOW AFTER UNIT** | **UNDERSTAND** | **BE ABLE TO DO** |
| - the scientific process- how to conduct a simple experiment- how to compare - how to sort- appropriate materials for structures- methods of joinery | - characteristics and functions of natural structures- characteristics and functions of human-built structures- characteristics that contribute to the strength, stability and balance of structures | - many human-built structures are modeled after natural structures- analyze the function of natural and human-built structures- analyze how 2D and 3D objects provide strength, stability and balance- the significance of historical structures- the importance of safety procedures and rules while constructing structures | - compare and classify the characteristics of solid, frame and shell structures- compare characteristics of different types of shelters- analyze how shape contributes to the stability and balance of structures- develop and carry out a plan to construct a simple structure that meets specified criteria based on strength, stability and function- estimate measurements for materials required for construction- follows safety procedures and rules for construction- illustrate the construction process for a simple structure  |
|  Vocabulary:- structure- variable- function- natural-human-built | - stability- balance- solid-frame-shell |
| **Essential Questions** |
| **What resemblances in design and function do you see between human-built and natural structures?****What is the significance of historical structures?****How has construction changed throughout history?****How do common shapes contribute to balance and stability?****Why are safety procedures and rules important when constructing structures?** |