**North East School Division**

**Unpacking Outcomes**

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| **Harvesting the Outcome** | **BIG IDEAS** |
| **SS3.2 Demonstrate understanding of measuring mass in g and kg by:*** **selecting and justifying referents for g and kg**
* **modelling and describing the relationship between g and kg**
* **estimating mass using referents**
* **measuring and recording mass**
 | **Wait! Is it all about weight?****Measuring up – What do I do?** |
| **Outcome** (circle the verb and underline the nouns or noun phrases) |
| **Demonstrate** → understanding of measuring mass**Modelling** → the relationship between g and kg **Describing** → the relationship between g and kg between g and kg**Estimating**  → mass using referents**Measuring** → mass**Recording** → mass |
| **KNOW BEFORE UNIT** | **KNOW AFTER UNIT** | **UNDERSTAND** | **BE ABLE TO DO** |
| - what a 3-D object is- what a referent is | - what grams and kilograms are- how to estimate mass- what a scale is and how to use it- strategies for measuring  | - objects have mass- kg and g are related- referents help us estimate mass- that the mass of an object isn’t changed when it is reformed into different shapes and sizes- the difference between weight and mass- appropriate units of measuring mass are determined by the object being measured - masses can be compared- there are many real life situations that involve measuring mass | - describe relevant situations that involve measuring mass- create and solve questions involving estimating and measuring mass- determine personal referents for 1 kg, 100 g, 10 g and 1 g.- select an appropriate unit for measuring mass of a given object and justify your choice- analyze the relationships between units for measuring mass- use a scale to determine the mass of an object and record the mass- compare the mass of 2 objects and than verify the mass using a scale- estimate the mass of personal object and explain the strategy used - model and describe the relationship between g and kg- observe a variety of documents that use the word weight rather than mass |
|  Vocabulary:- grams- kilograms- mass | - weight- referents- scales |
| **Essential Questions** |
| **How are g and kg related?****How do you select an appropriate unit for measuring mass of an object?****How can you estimate the mass of any object?****What is mass?****When is an estimate good enough? When do I need to be precise?** |