**WEEK 10 – Popular Data Stats**

**Grade:** Intermediate (7-8)

**Unit:** Data

**Curriculum Expectation**
determine the impact of adding or removing data from a data set on a measure of central tendency, and describe how these changes alter the shape and distribution of the data

**SEL:** make connections between math and everyday contexts to help them make informed judgements and decisions

**Activity
1)** Your task here is to collect and explore a set of data that is of interest to you and explore the best way to compare this data **2)** First you will need to determine something that is interesting to you that you could collect a series of data on and compare the central point of (for example number of albums sold by your favourite artist, height of forwards compared to defence in hockey etc.)
**3)** As you collect data, you will fill out the recording sheet below with the measurements and which object it is
**4)** You must collect at least 7-10 points of data that can be compared. Points should be some kind of measurement, but can be anything needed
**5)** You will then calculate the mean, median and mode of this set of data and determine which measurement gives the most meaningful results
**Note:** Alternatively, if you don’t have internet access to find a set of data, you could compare data that you find around your house (ie. capacity of a box of cereal height of tables etc.)

**Check for Understanding**
I can collect a series of data that share similarities and can be compared
I can compare a body of data using mean, median and mode
I can determine the best form of comparison to find the central tendency of a set of data

**Materials**
Recording chart (attached below), pencil, access to a set of data/creation of a set of data, sense of measurement

Measurement Scaling

|  |  |  |
| --- | --- | --- |
| **Data Point Name** | **Measurement**  | ***Description of data point*** |
| Hockey Defender height | 1.85m | Height of a defender from Toronto |
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Calculation of

Mean:

Median:

Mode:

Follow up Questions:

1. Which calculation was the most accurate to find the central tendency? Why?