**WEEK 12 – Shooting Hoops**

**Grade:** Junior (4-6)

**Unit:** Data Management and Probability

xxx

**Curriculum Expectation**  
select an appropriate type of graph to represent a set of data, graph the data using technology, and justify the choice of graph

**Activity  
1)** You will be playing a game involving shooting hoops. You will need a ‘basket’ (this could be an empty box, garbage bin, bowl etc.) and a ‘ball’ (this could be a small soft ball, or a crumpled piece of paper etc.) **2)** You will start by placing whatever object you chose as the basket in a set position in a room you can move around  
**3)** You will take 3 steps back from the basket. Take 5 shots with your ball and record how many you get in.   
**4)** Repeat step 3 , taking three steps back and taking 5 shots as many times as you can until, for two straight rounds of 5 shots, you are unable to get any baskets. Record the number of shots you make each round  
**5)** Once you are done the game, your task is to create a graph (bar graph, line graph, pictograph etc.) comparing how many shots you made from each distance **6)** Once you have made the cart, consider some of the follow up questions below

**Check for Understanding**   
I can choose an appropriate graph to show my findings  
I can justify my choice for picking one graph over others  
I understand how to methodically record information in a real world setting

**Materials**   
Recording sheet (attached below), pencil, object to be used as a ball, object to be used as a basket

|  |  |  |
| --- | --- | --- |
| **Number of steps away from basket** | **Shots made** | **Shots missed** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Shot Distance Comparison Chart

1. Which type of graph did you choose and why?
2. If you were a basketball scout, how would the information shown in this graph be beneficial?