

## Lesson 1 - Miniature Golf Station

### **LEARNING OBJECTIVES:**

1. Students will gather data and report results by constructing appropriate graphs.
2. Students will interpret information graphed through activities derived from studying averages: mean, median, and mode

### **NYS Standards: MST 2,3**

#### **SKILLS and CONCEPTS:**

- Design a graph
- Interpreting and making predictions derived from organizing quantitative data
- Calculate the mean, mode, and median

### **Procedure:**

1. Each student plays 18 holes of golf and records his/her number of strokes made to sink the golf ball in the hole. Student records scores in journal.
2. Student calculates the mean, median and mode averages.
3. Student creates a graph (bar graph, circle graph, etc) as instructed by teacher.

### **Resources Required:**

golf clubs, golf balls, journal/clipboard, pen, pencil, calculator

### **Preparation Required:**

- knowledge of mini-golf
- guidelines for working in groups
- calculator use
- guidelines for working groups
- review/learn mean, median, mode

### **Assessment:**

- Gradeable graph
- Data collected
- Rubric: see attached

### **Possible Extensions:**

- Additional graphs

- Graphs on computer
- Display charts
- Written Reflection

**Activity #1**

**Mini Golf**

1. \_\_\_\_\_

7. \_\_\_\_\_

13. \_\_\_\_\_

2. \_\_\_\_\_

8. \_\_\_\_\_

14. \_\_\_\_\_

3. \_\_\_\_\_

9. \_\_\_\_\_

15. \_\_\_\_\_

4. \_\_\_\_\_

10. \_\_\_\_\_

16. \_\_\_\_\_

5. \_\_\_\_\_

11. \_\_\_\_\_

17. \_\_\_\_\_

6. \_\_\_\_\_

12. \_\_\_\_\_

18. \_\_\_\_\_

<b>Average Number of Holes in One</b>	<u>Mean</u>	<u>Median</u>	<u>Mode</u>

# Graph

**Title:**

