

## **Fun Park Lesson Plan #2 – Graphing Data on a Double Line Graph**

Name of teacher designing the lesson: Rose Rivezzi

Full day field trip to the Fun Park

Lesson # 2 Graphing data on a double line graph

### **SKILL**

Collect and record data

Rounding numbers

### **CONCEPTS**

Using a stopwatch; recording times to nearest second

Setting up a double line graph and accurately recording data

Brief outline of the lesson:

1. The students will go through a course in the Discovery Zone
2. Partners will time each other and record times on a chart.
3. Partners will make a double line graph.

Detailed step-by step outline of the day:

Several chaperones are useful for this lesson. One of the staff members of the Park was great about setting up a one-way course through the Discovery Zone. Students take turns going through the course while their partners time them. Times are recorded on the worksheet and rounded to the nearest second. Four trials are recorded. Once data is collected, students make their line graphs reflecting data for both students on one graph. Students can work at the tables there.

Resources Required:

1. Stopwatches
2. Pencils
3. Colored pencils to show two different colored lines
4. Worksheet (see below)

Preparation Required:

- Reproduce copies of worksheet
- Arrange for adult chaperones to assist students.
- Mark off the course
- Classroom lesson on line graphs

**Assessment: I simply used a  $\sqrt{+}$ ,  $\sqrt{\phantom{x}}$ ,  $\sqrt{-}$  scoring depending on the completeness of the task or level of understanding.**

## Student Worksheet – Fun Park Lesson #2 - Graphing Data on a Double Line Graph

### Station #2 Discovery Zone Line Graph

Needed: sports watch for each pair of students, clipboard

- You and your partner will take turns timing each other for 4 trials through the Discovery Zone. Each turn will be once through the zone following the arrows.

- Decide who will go first. Make sure there is enough time between you and another team before you go. An adult will guide you. Tell your partner when to go and time him or her.

- Complete the information below before making the double line graph.

Round each time on the stop watch to the nearest second.

#### Times for a Trip Through the Discovery Zone

	Trial #1	Trial #2	Trial #3	Trial #4
My time				
Partner's Time				

Now make a double line graph on the next page using the data from the chart above.

## Discovery Zone Line Graph

Decide on an interval for the time axis. You probably won't be starting at 1 but at a number just below the fastest time recorded.

Label the trial #'s along the bottom axis.

Give each axis a second label.

Select a different color for each of you.

Plot both sets of data on the graph in different colors.

Connect the dots with the color line you have selected for each of you

Make a key telling who is which color

Give the graph a title

my times  
partner's times