

**GRADE LEVEL:** 5/6

**STRAND:** Data and Statistics

**GLCEs:** 5<sup>th</sup> Grade

**LESSON TITLE:** Graphin' the Games

**LEARNING OBJECTIVES:**

- Students will construct line graphs from tables of data.
- Students will calculate and interpret the mean and median of collected and graphed data.

**MATERIALS:** Graph paper  
Ruler  
Red and blue colored pencils  
Handout -- Graphin' the Games Activity Sheet

**BACKGROUND:** Students should have experience analyzing data in tables and constructing line graphs. Students should understand how to calculate the mean and determine the median.

**INSTRUCTIONAL PLAN:** (See ACTIVITY SHEET)

**EXTENSIONS:**

For 7 days record the temperature at 9:00 am, 2:00 pm and 8:00 pm. Use the red colored pencil to draw a line graph of the 9:00 am temperatures; use the blue colored pencil to draw a line graph of the 2:00 pm temperatures; use another colored pencil to draw a line graph of the 8:00 pm temperatures. Determine the mean temperature for the week of the 9:00 am temperatures, the 2:00 pm temperatures and the 8:00 pm temperatures. Determine the median temperature for the week of the 9:00 am temperatures, the 2:00 pm temperatures and the 8:00 pm temperatures.

**MICHIGAN GLCEs**

**D.RE.05.01** Read and interpret line graphs, and solve problems based on line graphs (e.g., distance-time graphs) and problems with two or three line graphs on same axes, comparing different data.

**D.RE.05.02** Construct line graphs from tables of data; include axis labels and scale.

**D.AN.05.03** Given a set of data, find and interpret the mean (using the concept of fair share) and mode.

**D.AN.05.04** Solve multi-step problems involving means.