**Handout 2: Worksheet for Graphing School Forest Trends**

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 The basal area values from 2007 will be graphed on the attached sheet of graph along with the 2016–17 basal area values gathered by 7th graders at Washington Middle School**.**

 **1.)** The graph will consist of a vertical Y axis that will represent basal area (square feet/acre) and should start with 70 square feet/acre at the bottom and end with 140 square feet/acre at the top.

 **2.)** The X axis represents the years in which the data was gathered. Start with 1980 and end with 2030**.**

**3.)** Plot the basal area data for 2007 and 2016, connect the two points and extend the line to Y axis and extend it beyond the year 2030 to make predictions of future and past forest growth.
 **4.)** After plotting the forest growth trend line, draw a horizontal red line across the graph from the Y axis at 120 square feet/acre (when the forest should be harvested), until it intersects the growth trend line. Draw a line down to the X axis; this intersection provides an estimate of when the forest should be harvested.

 