

Pictometry on Line Lesson

Part 1 (Grades 5-8)

Objectives: The student will

- Use the basic tools of the pictometry on line software
- Practice collecting measurements
- Use measurements to construct a scale model

Standards (Pa)

- 3.4.5.C1 Explain how design process is a purposeful method of planning practical solutions to problems
- 3.4.6.C2 Explain how models are used to communicate and test design ideas and processes
- 3.4.6.D2 Use computers appropriately to access and organize and apply information

Materials:

- Computers
- Worksheet
- Pen or pencils

Methods

Part 1

1. Introduce the basic tools of the pictometry software (distance, height, area, elevation and location)
2. Type in the school address
3. Complete data table with measurements

Part 2

1. Introduce scale models
2. Students will select a structure (bridges) to gather measurements using software
3. Students will construct model of structure

Assessment

1. Worksheet completion and answers (part 1)
2. Construction of scale model (part 2)

Student Worksheet

Part 1

Location:

1. Height of Flag pole
2. Height of school building
3. Elevation of
Building
Flag Pole
 - Playground
4. Area of the school building
5. Choose 2 locations and measure distance between
Location a
Location b
Distance

Part 2

Choose a local bridge to measure for your scale model

Location of bridge

Latitude and Longitude of Bridge

Length

Height

Width

Area

Elevation

Type of bridge

