

Proportional Reasoning - Engaging Resources

M SO2 - Dinosaur Project

(Link: [Dinosaur Project](#))

"A build-it-yourself model of a dinosaur was purchased. Students working in groups were given a unique set of "bones" (from the model kit) which needed to be transformed into giant 'bones' for the school's model."

The Finished Project:

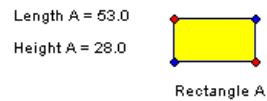
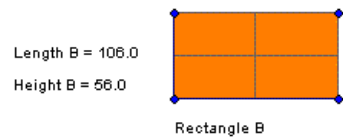
The enlarged "bones" are assembled to create the actual dinosaur. String attached to the ceiling and the walls helps the dinosaur "stand" in the hallway.



M SO3 - Illuminations: Scale Factor Interactive

(Link: [Illuminations Scale Factor](#))

"A common misconception is that when the dimensions of an object are doubled, the area is doubled, too. But this is not true! Use this applet to investigate how changes in the scale factor influence the ratio of perimeters and the ratio of areas between two figures."



Measurements

Length B / Length A = 2.0

Height B / Height A = 2.0

Perimeter B = 324.0

Perimeter A = 162.0

Perim B / Perim A = 2.0

Area A = 1484.0

Area B = 5936.0

Area B / Area A = 4.0