5.2 Scaling up the Compost Box

Name:	Period:	Date:
B. How is the change in surface at from the 1-2-3 box to the similar I Suppose the compost box has a		
C. How is the change in volume f 1-2-3 box to the similar box? Exp		related to the scale factor from the
E. Suppose the scale factor betwe Describe the dimensions, surface		

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Launch

• **Similar:** Two rectangular prisms are similar if the ratios of the lengths of the corresponding edges are equal.

What is the relationship between the corresponding dimensions of the two boxes? (Compare the edges: length, width, and height)

What is the relationship between the surface areas of the two boxes? (Compare the total surface areas).

What is the relationship between the volumes of the two boxes? (Compare the total volume of each box).