

Chapter 12 Solids
Scaling

1. Consider a cube $1\text{ cm} \times 1\text{ cm} \times 1\text{ cm}$ (a very small sugar cube). Its volume is 1 cm^3 . The surface area of one of its faces is 1 cm^2 . The total surface area of the cube is 6 cm^2 because it has 6 sides. Now consider a second cube, scaled up by a factor of 2 so it is $2\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$.

a. What is the total surface area of each cube?

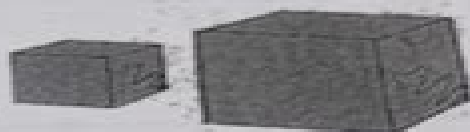
1st cube 6 cm^2 ; 2nd cube 24 cm^2

b. What is the volume of each cube?

1st cube 1 cm^3 ; 2nd cube 8 cm^3

c. Compare the ratio of surface area to volume for each cube.

1st cube of $\frac{\text{surface area}}{\text{volume}} = \frac{6}{1}$; 2nd cube of $\frac{\text{surface area}}{\text{volume}} = \frac{3}{1}$



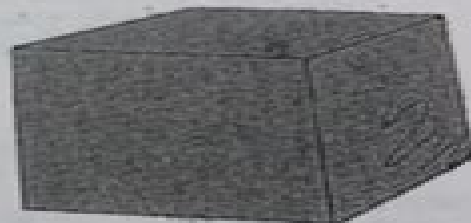
2. Now consider a third cube, scaled up by a factor of 3 so it is $3\text{ cm} \times 3\text{ cm} \times 3\text{ cm}$.

a. What is its total surface area? _____ cm^2

b. What is its volume? _____ cm^3

c. What is its ratio of surface area to volume?

$\frac{\text{surface area}}{\text{volume}} = \frac{\quad}{\quad}$



3. When the size of a cube is scaled up by a certain factor

(2 and then 3 for the above examples), the area increases as the _____ of the factor,

and the volume increases as the _____ of the factor.

4. Does the ratio of surface area to volume increase or decrease as things are scaled up?

5. Does the rule for the scaling up of cubes also apply to other shapes? _____

Would your answers have been different if we started with a sphere of diameter 1 cm and scaled it up to a sphere of diameter 2 cm, and then 3 cm? _____

6. The effects of scaling are beneficial to some creatures and detrimental to others. Check either (B) for beneficial or (D) for detrimental for each of the following:

a. an insect falling from a tree _____ d. a big fish chasing a small fish _____

b. an elephant falling from the same tree _____ e. a hungry mouse _____

c. a small fish trying to flee from a big fish _____ f. an insect that falls in the water _____

Don't forget!

Conceptual Physics Chapter 12

Marx W. Wartofsky



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Physics John D. Cutnell, Kenneth W. Johnson, 1994-08-02 This text is designed for a one year course in college physics that uses algebra and trigonometry The book has three goals to help students develop conceptual understanding of physical principles the ability to reason and problem solving skill to help students see that physics is a wonderfully integrated body of knowledge to show students that physics principles come into play over and over again in their lives

Holt Physics Raymond A. Serway, 2002

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appropriate For scientists and engineers who are interested in learning physics *Teaching Science for Understanding*
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