

# Physics

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(Chapter 1) (Units and Measurement) (Exercises)

(Class 11)

## Question 1.1:

Fill in the blanks

(a) The volume of a cube of side 1 cm is equal to ....m<sup>3</sup>

(b) The surface area of a solid cylinder of radius 2.0 cm and height 10.0 cm is equal to ... (mm)<sup>2</sup>

(c) A vehicle moving with a speed of 18 km h<sup>-1</sup> covers...m in 1 s

(d) The relative density of lead is 11.3. Its density is ....g cm<sup>-3</sup> or ...kg m<sup>-3</sup>.

## Answer 1.1:

(a)  $1 \text{ cm} = \frac{1}{100} \text{ m}$

Volume of the cube = 1 cm<sup>3</sup>

But,  $1 \text{ cm}^3 = 1 \text{ cm} \times 1 \text{ cm} \times 1 \text{ cm} = \left(\frac{1}{100}\right) \text{ m} \times \left(\frac{1}{100}\right) \text{ m} \times \left(\frac{1}{100}\right) \text{ m}$

$\therefore 1 \text{ cm}^3 = 10^{-6} \text{ m}^3$

Hence, the volume of a cube of side 1 cm is equal to 10<sup>-6</sup> m<sup>3</sup>.

(b) The total surface area of a cylinder of radius  $r$  and height  $h$  is

$S = 2\pi r (r + h)$ . Given that,  $r = 2 \text{ cm} = 2 \times 10 \text{ mm} = 20 \text{ mm}$

$h = 10 \text{ cm} = 10 \times 10 \text{ mm} = 100 \text{ mm} = 15072 = 1.5 \times 10^4 \text{ mm}^2$

$\therefore S = 2 \times 3.14 \times 20 \times (20 + 100)$

(c) Using the conversion,

$1 \text{ km/h} = \frac{5}{18} \text{ m/s}$

$18 \text{ km/h} = 18 \times \frac{5}{18} = 5 \text{ m/s}$

Therefore, distance can be obtained using the relation: Distance = Speed  $\times$  Time = 5  $\times$  1 = 5 m

Hence, the vehicle covers 5 m in 1 s.

(d) Relative density of a substance is given by the relation,

Relative density =  $\frac{\text{Density of substance}}{\text{Density of water}}$

Density of water = 1 g/cm<sup>3</sup>

Density of lead = Relative density of lead  $\times$  Density of water = 11.3  $\times$  1 = 11.3 g/cm<sup>3</sup>

Again,  $1 \text{ g} = \frac{1}{1000} \text{ kg}$

$1 \text{ cm}^3 = 10^{-6} \text{ m}^3$

$1 \text{ g/cm}^3 = \frac{10^{-3}}{10^{-6}} \text{ kg/m}^3 = 10^3 \text{ kg/m}^3$

$\therefore 11.3 \text{ g/cm}^3 = 11.3 \times 10^3 \text{ kg/m}^3$

## Question 1.2:

Fill in the blanks by suitable conversion of units

(a)  $1 \text{ kg m}^2 \text{ s}^{-2} = \dots \text{ g cm}^2 \text{ s}^{-2}$

(b)  $1 \text{ m} = \dots \text{ ly}$

(c)  $3.0 \text{ m s}^{-2} = \dots \text{ km h}^{-2}$

(d)  $G = 6.67 \times 10^{-11} \text{ N m}^2 (\text{kg})^{-2} = \dots (\text{cm})^3 \text{ s}^{-2} \text{ g}^{-1}$ .

# Physics Study Guide Answers Chapter 11

**Karin Nielsen-Saines**



**Physics Study Guide Answers Chapter 11:**

## **Physics Study Guide Answers Chapter 11** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physics Study Guide Answers Chapter 11**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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cut out the templates and trace the letter e and the elephant ears feet and trunk onto card stock cut out the letter e and the elephant pieces glue the letter e and the elephant pieces onto a full sheet of card stock we used purple but you

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i remember working on animal sounds with each of them and they had so much fun making elephant noises they would even hold their arm up to their face to pretend it was their trunk elephants are so fascinating they are the world s largest animals on land their big ears and playful personality make them a common favorite animal for children

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download and print the free elephant craft template cut out the template patterns 2 trace the template pieces on colored craft or construction paper cut out all the pieces 3 glue the inner ear piece in the middle of the outer ear piece 4 flip the elephant body piece so that the back of it is facing up you decide which side is the back

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aug 20 2022 download the elephant headband template print and cut out the pieces glue the eyes around the middle of the head take the trunk and glue it in between and slightly on top of the eyes place the cheeks below the eyes and on the outside of the trunk and glue in place make the ears by gluing the pink inner ear to the gray outer ear

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aug 20 2022 download the elephant template print and cut out the pieces if you re making this craft with kids who don t have the dexterity to cut by themselves it will help things go more smoothly if the pieces are cut out ahead of time and ready to go take the two eyes and glue them near the middle of the head as the pictures show

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print the elmer elephant template and cut out the pieces trace each of the elephant parts onto construction paper using colors of your choice then cut out the ears trunk and hair tuft

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feb 13 2021 position the elephant s eyes near the middle of the paper plate next glue the trunk just below and in between the eyes use a black marker to draw on the elephant trunk lines mouth and eyebrows glue the cheeks on either side of the face just below the eyes finish the elephant s ears by gluing the inner ear to the outer ear