

Physics

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(Chapter 2) (Units and Measurement) (Exercises)

(Class 11)

Question 2.1:

Fill in the blanks

(a) The volume of a cube of side 1 cm is equal tom³

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

(c) A vehicle moving with a speed of 18 km h⁻¹ covers...m in 1 s

(d) The relative density of lead is 11.3. Its density isg cm⁻³ or ...kg m⁻³.

Answer 2.1:

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

Volume of the cube = 1 cm³

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

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

Hence, the volume of a cube of side 1 cm is equal to 10⁻⁶ m³.

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

$$S = 2\pi r (r + h). \text{ Given that, } r = 2 \text{ cm} = 2 \times 1 \text{ cm} = 2 \times 10 \text{ mm} = 20 \text{ mm}$$

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

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

(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,

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

$$\text{Density of water} = 1 \text{ g/cm}^3$$

$$\text{Density of lead} = \text{Relative density of lead} \times \text{Density of water} = 11.3 \times 1 = 11.3 \text{ g/cm}^3$$

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

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

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

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

Question 2.2:

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

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Peterson's



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Decoloniality, Language and Literacy

Carolyn McKinney, Pam Christie, 2021-12-20 Through a range of unconventional genres representations of data and dialogic reflective narratives alongside more traditional academic genres this book engages with contexts of decoloniality and border thinking in the Global South It addresses processes of knowledge production and participation in the highly divided and unequal schooling and higher education system in South Africa and highlights the consequences of the monolingual myth in post colonial education demonstrating opportunities for learning provided by translanguaging It explores both embodied multimodal and multilingual instances of knowledge making in teaching and teacher education that take place outside but alongside formal classroom lecture and seminar modes and the positionality and learning experiences of teacher educators in science literacy and language across the curriculum The book is not only transdisciplinary but also captures the learning that takes place beyond the borders of disciplines and formal classroom spaces

Private Secondary Schools 2014-2015

Peterson's, 2014-01-09 Peterson's Private Secondary Schools 2014 15 is a valuable resource to help parents and students evaluate and choose from more than 1 100 schools in the United States Canada and throughout the world Featured institutions include independent day schools special needs schools and boarding schools including junior boarding schools for middle school students Profiles offer detailed information on areas of specialization location setting affiliation accreditation tuition and aid availability student body faculty academic programs athletics computers and campus technology and admission information Dozens of in depth descriptions and displays offer photos of students and school campuses as well as essential information to help parents find the right private secondary school for their child Extra Summer Programs section offers additional details on fascinating summer opportunities at private secondary schools

Proceedings Of The 14th

International Congress On Mathematical Education (In 2 Volumes) Jianpan Wang, 2024-06-07 The International

Congress on Mathematical Education ICME is the largest international conference on mathematics education in the world. This quadrennial event is organized under the auspices of the International Commission on Mathematical Instruction ICMI. This book, the Proceedings of ICME 14, presents the latest trends in mathematics education research and mathematics teaching practices at all levels. Each chapter covers an extensive range of topics in mathematics education. Volume I consists of 4 Plenary Lectures, 3 Plenary Panels, 5 Lectures of Awardees, 4 Survey Teams, 62 Topic Study Groups, 13 Discussion Groups, 20 Workshops, a Thematic Afternoon, and an Early Career Researcher Day. Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education. Plenary Panels address three major challenges currently facing mathematics educators across the globe. The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge, recent developments, new perspectives, and emergent issues. The Topic Study Groups provide a coverage of important topics in mathematics education. Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world. These lectures cover a wide spectrum of topics, themes, and issues that reflect the latest challenges and development in the field of mathematics education.

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Problems and Problem Solving in Chemistry Education Georgios Tsaparris, 2021-05-17. Problem solving is central to the teaching and learning of chemistry at secondary, tertiary, and post-tertiary levels of education, opening to students and professional chemists alike a whole new world for analysing data, looking for patterns, and making deductions. As an important higher-order thinking skill, problem solving also constitutes a major research field in science education. Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative/computational problems but also in qualitative problem solving. The following situations are considered: some general, others with a focus on specific areas of chemistry: quantitative problems, qualitative reasoning, metacognition, and resource activation; deconstructing the problem-solving process; an overview of the working memory hypothesis.

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Super Courses Ken Bain, 2021-03-09 An exploration of some of the most intriguing college teachers pedagogy challenging traditional learning environments

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A Mind For Numbers Barbara Oakley, PhD, 2014-07-31 The companion book to COURSERA's wildly popular massive open online course Learning How to Learn Whether you are a student struggling to fulfill a math or science requirement or you are embarking on a career change that requires a new skill set A Mind for Numbers offers the tools you need to get a better grasp of that intimidating material Engineering professor Barbara Oakley knows firsthand how it feels to struggle with math She flunked her way through high school math and science courses before enlisting in the army immediately after graduation When she saw how her lack of mathematical and technical savvy severely limited her options both to rise in the military and to explore other careers she returned to school with a newfound determination to retool her brain to master the very subjects that had given her so much trouble throughout her entire life In A Mind for Numbers Dr Oakley lets us in on the secrets to learning effectively secrets that even dedicated and successful students wish they'd known earlier Contrary to popular belief math requires creative as well as analytical thinking Most people think that there's only one way to do a problem when in actuality there are often a number of different solutions you just need the creativity to see them For example there are more than three hundred different known proofs of the Pythagorean Theorem In short studying a problem in a laser focused way until you reach a solution is not an effective way to learn Rather it involves taking the time to step away from a problem and allow the more relaxed and creative part of the brain to take over The learning strategies in this book apply not only to math and science but to any subject in which we struggle We all have what it takes to excel in areas that don't seem to come naturally to us at first and learning them does not have to be as painful as we might think

Textbook of Clinical Neuropsychology Joel E. Morgan, Joseph H. Ricker, 2017-12-06 The first edition of the Textbook of Clinical Neuropsychology set a new standard in the field in its scope breadth and scholarship The second edition comprises authoritative chapters that will both enlighten and challenge readers from across allied fields of neuroscience whether novice mid level or senior level professionals It will familiarize the young

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