

## Chemistry – Unit 1 – Worksheet 5

### Size of Things

For this worksheet, you will need to go to the site – <http://www.vendian.org/howbig/> to answer the following questions.

#### Part 1 – Real World

Click on the link to Real World; make sure that you are looking at the sheet of graph paper. Each of the tiny squares on the paper is 1 mm ( $10^{-3}$  m) on a side. Examine the objects whose approximate size is given (~ 100 mm means the object is approximately 100 millimeters wide).

- Using the graph paper as a measuring tool, estimate the diameter of the following in mm:  
quarter \_\_\_\_\_ golf ball \_\_\_\_\_ ping pong ball \_\_\_\_\_
- Use the ruler below the objects to estimate the diameter of each in inches.  
quarter \_\_\_\_\_ golf ball \_\_\_\_\_ ping pong ball \_\_\_\_\_
- How long is the 5 Euro bill in mm \_\_\_\_\_ in cm \_\_\_\_\_ in inches \_\_\_\_\_?

#### Part 2 – Micro World

Go to the top of the page and click on the *micro* link. Each of the tiny squares on the graph paper is 1  $\mu\text{m}$  ( $10^{-6}$  m) on a side. Examine the objects whose approximate size is given (~ 10 $\mu\text{m}$  means the object is approximately 10 micrometers wide).

- Estimate the length of the paramecium in  $\mu\text{m}$ . You might have to use the Pythagorean Theorem to find this. \_\_\_\_\_ Use the conversion factor  $1\text{m} = 10^6 \mu\text{m}$  to change this length to m. \_\_\_\_\_

Why is it more convenient to express this value in  $\mu\text{m}$ ?

- Lower on the page are some drops from an inkjet printer with a resolution of 1200 dpi. Estimate the diameter (in  $\mu\text{m}$ ) of such a drop \_\_\_\_\_
- Estimate the length of the left-most human chromosome. \_\_\_\_\_
- The author shows the thickness of a sheet of aluminum foil.  
What is this in  $\mu\text{m}$ ? \_\_\_\_\_ Use the conversion factor  $1\text{m} = 10^6 \mu\text{m}$  to change this thickness to m \_\_\_\_\_
- Now, convert this thickness to cm. ( $1\text{m} = 100\text{ cm}$ ) How does this compare to the value you obtained?

# Chemistry Unit 1 Size Of Things Answers

**Terry C. Jones**



## **Chemistry Unit 1 Size Of Things Answers:**

**Introduction to the Chemistry of Life** Peter P. Berlow, Donald J. Burton, Joseph Isaac Routh, 1982      **The Chemistry of Everything** Kimberley Waldron, 2007 The Chemistry of Everything addresses the need to know basics of chemistry required to grasp everyday science issues Through innovative themes and creative applications it provides an engaging introduction to chemistry for nonscience majors Mixes basic chemical principles from physical inorganic organic analytical and biological specializations to support thematic coverage of topics such as diamonds groceries and drugs Extends readers vocabulary and knowledge of the scientific issues encountered in daily life Addresses issues of ethics and responsible use in contemporary science Captures the current fascination with forensics through Chemistry at the Crime Scene boxed sections For those interested in basic chemistry      **Special Relativity and Classical Field Theory** Leonard Susskind, Art Friedman, 2017-09-26 The third volume in the bestselling physics series cracks open Einstein's special relativity and field theory Physicist Leonard Susskind and data engineer Art Friedman are back This time they introduce readers to Einstein's special relativity and Maxwell's classical field theory Using their typical brand of real math enlightening drawings and humor Susskind and Friedman walk us through the complexities of waves forces and particles by exploring special relativity and electromagnetism It's a must read for both devotees of the series and any armchair physicist who wants to improve their knowledge of physics deepest truths      Chemistry Jacqueline I. Kroschwitz, 1990-02      **Scientific American Biology for a Changing World** Michele Shuster, Janet Vigna, Gunjan Sinha, Matthew Tontonoz, 2011-02-25 To view sample chapters and more information visit [www.whfreeman.com/SABiologyPreview](http://www.whfreeman.com/SABiologyPreview) All of us involved in science education understand the importance of scientific literacy How do we get the attention of a nonscientist And if we can get it how do we keep it not only for the duration of the course or the chapter in a textbook but beyond How do we convey in our courses and our textbooks not just what we know but also how science is done These are the challenges we hope to address with our new series of textbooks specifically for the nonscientist With this series W H Freeman and Scientific American join forces not just to engage nonscientists but to equip them critical life tools      **General, Organic, and Biological Chemistry** John R. Amend, Bradford P. Mundy, Melvin T. Arnold, 1990 Very Good No Highlights or Markup all pages are intact      **Laboratory Techniques in Biology - 2** Mr. Rohit Manglik, 2024-03-02 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels      **Nanosensors** Vinod Kumar Khanna, 2021-02-25 Nanosensors are innovative devices that exploit the unique properties exhibited by matter at the nanoscale A growing and exciting field nanosensors have recently spurred considerable research endeavors across the globe driving a need for the development of new device concepts and engineering nanostructured materials with controlled properties Nanosensors Physical Chemical and Biological Second

Edition offers a panoramic view of the field and related nanotechnologies with extraordinary clarity and depth Presenting an interdisciplinary approach blending physics chemistry and biology this new edition is broad in scope and organised into six parts beginning with the fundamentals before moving onto nanomaterials and nanofabrication technologies in the second part The third and fourth parts provide a critical appraisal of physical nanosensors and explore the chemical and biological categories of nanosensors The fifth part sheds light on the emerging applications of nanosensors in the sectors of society industry and defense and details the cutting edge applications of state of the art nanosensors in environmental science food technology medical diagnostics and biotechnology The final part addresses self powering and networking issues of nanosensors and provides glimpses of future trends This is an ideal reference for researchers and industry professionals engaged in the frontier areas of material science and semiconductor fabrication as well as graduate students in physics and engineering pursuing electrical engineering and electronics courses with a focus on nanoscience and nanotechnology Key features Provides an updated all encompassing exploration of contemporary nanosensors and highlights the exclusive nanoscale properties on which nanosensors are designed Presents an accessible approach with a question and answer format to allow an easy grasp of the intricacies involved in the complex working mechanisms of devices Contains clear illustrative diagrams enabling the visualization of nanosensor operations along with worked examples end of chapter questions and exhaustive up to date bibliographies appended to each chapter

**Biology** Mariëlle Hoefnagels, 2021-03 I have been teaching nonmajors biology at the University of Oklahoma since 1997 and over that time have encountered many students who fear science in general and biology in particular The complexity abstractions and unfamiliar terms can seem overwhelming at first but with practice I know that anyone can think like a scientist Learning to think scientifically is important well beyond passing your biology class After all scientific issues confront you every day as you navigate your life and your social media accounts How do you know if a claim about climate change is scientific Will you be able to identify misinformation and interpret graphs during the next global health crisis This book will teach you not only to understand the scientific terms you encounter but also to distinguish good science from unscientific claims I've created the following features to help you make the transition from memorizing facts to understanding concepts from accepting scientific claims to analyzing them for yourself These tools will help you to pass your class and to be an informed citizen Prentice Hall

Science Explorer Michael J. Padilla, 2002 **Metal Industry**, 1915 **Metal Finishing**, 1915 *English Mechanic and Mirror of Science and Art*, 1889 **Pearson's Magazine**, 1922 Vol 49 no 9 Sept 1922 accompanied by a separately paged section entitled ERA electronic reactions of Abrams English Mechanic and Mirror of Science, 1871 Proceedings of the Steel Treating Research Society. ... Steel Treating Research Society, 1919 **Textile World**, 1923 **The American School Board Journal**, 1917 **Physics for Our Times** Walter George Marburger, Charles Wesley Hoffman, 1958 **Scientific American**, 1913

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