

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 μm (10^{-6} m) on a side. Examine the objects whose approximate size is given (~ 10 μm means the object is approximately 10 micrometers wide).

- Estimate the length of the paramecium in μm . 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 μm ?

- Lower on the page are some drops from an inkjet printer with a resolution of 1200 dpi. Estimate the diameter (in μm) 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 μm ? _____ 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

**Michele Shuster, Janet Vigna, Gunjan
Sinha, Matthew Tontono**



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Introduction to the Chemistry of Life Peter P. Berlow, Donald J. Burton, Joseph Isaac Routh, 1982 **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 [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 [Chemistry](#) Jacqueline I. Kroschwitz, 1990-02 [Scientific American Biology for a Changing World](#) Michele Shuster, Janet Vigna, Gunjan Sinha, Matthew Tontono, 2011-02-25 To view sample chapters and more information visit 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

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