

SCIENTIFIC INVESTIGATION

1. On previous SOL tests, students have been asked to choose the piece of glassware that gives the most *precise* results. They have usually been given the following choices:

beaker flask pipet test tube graduated cylinder

Of these choices, the most precise piece of glassware is the GRADUATED CYLINDER

because EACH LINE REPRESENTS 1 mL or 0.1 mL. SMALL DIVISIONS BETWEEN LINES = MORE PRECISE.

2. When you read the volume on a graduated cylinder or you measure length with a ruler, you should always estimate the final digit. The final estimated digit will always be one power of ten smaller than each line is worth on the instrument. In other words, if the ruler shows lines every 0.1 cm, then you estimate length to the nearest 0.01 cm.

Estimate the length of this strip: 6.75 cm



3. If you measure something in an experiment, why do you think it is a good idea to perform the measurement three separate times and take the average result?

TO VERIFY YOUR RESULTS: TO GET CONSISTENT, REPRODUCIBLE RESULTS

4. If you take several measurements, then your data will be *precise* if

THE NUMBERS ARE VERY CLOSE TO EACH OTHER

5. Data is considered to be *accurate* if THE NUMBERS ARE CLOSE TO THE ACCEPTED VALUE

6. A common scenario is to show data that is *precise but not accurate*. The boiling point of water is 100.0°C. Give an example of data for the BP of H₂O that is *precise but not accurate*:

Trial 1: 81°C Trial 2: 82°C Trial 3: 82°C Trial 4: 81°C (answers may vary)

6. Basic lab techniques for separation of a mixture are listed below. Match the physical property with the separation technique.

C chromatography

A. boiling point

B filtration

B. particle size

A distillation

C. interaction with the solvent (polarity)

Chemistry Sol Review Material Packet Answers

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Chemistry Sol Review Material Packet Answers:

Encyclopedia of Renewable and Sustainable Materials ,2020-01-09 Encyclopedia of Renewable and Sustainable Materials Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable recyclable and sustainable materials The use of renewable and sustainable materials in building construction the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide CO₂ emissions manufacturing energy requirements manufacturing costs and waste This book provides researchers students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development selection and use of construction and manufacturing materials Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials Technical Book Review Index ,1950

Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science

and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

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Organic Chemistry Douglas C. Neckers, Michael P. Doyle, 1977 **Commerce Business Daily**, 1999-08 **The Teachers' Aid**, 1892 **Elements of General and Biological Chemistry** John R. Holum, 1987 This book is a shorter version of the third edition of Fundamentals of General Organic and Biological Chemistry 1986 It incorporates the recommendations of the Task Force on Chemical Education for Health Professions and meets the needs for a basic text in a one term course in chemistry for students aiming for careers in professional health care fields

Scientific and Technical Books and Serials in Print, 1989 **Biology/science Materials** Carolina Biological Supply Company, 1991 El-Hi Textbooks and Serials in Print, 2006 **Scientific and Technical Aerospace Reports**, 1994 El-Hi Textbooks & Serials in Print, 2005, 2005 *Book Review Digest*, 1997 *Replies [afterw.] The Oracle*, *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1959 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December

Cracking the Virginia SOL Paul Foglino, Princeton Review (Firm), 2000 The Princeton Review realizes that acing the Chemistry exam is very different from getting straight As in school The Princeton Review doesn t try to teach students everything there is to know about chemistry

only the techniques they'll need to score higher on the exam. There's a big difference. In *Cracking the Virginia SOL EOC Chemistry*, TPR will teach test takers how to think like the test makers and score higher by mastering what test takers need to know with proven techniques. Use word association to solve problems when unsure of the correct answers. Ace the exam by understanding the logic of the test makers and applying it to solutions. This book includes 2 full-length simulated exams. All of TPR's sample test questions are just like the ones test takers will see on the actual End of Course Chemistry exam, and TPR fully explains every solution. Contents include: The Mystery Exams About the SOL Exams How to Crack the Chemistry EOC II Chemistry Review Atomic Structure Anatomy of the Periodic Table Chemical Compounds Chemical Reactions Chemistry Math Gases Phase Changes Solutions Equilibrium Acids and Bases How Chemical Reactions Happen Laboratory III The Princeton Review Practice Tests **Science Digest**, 1980

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