

Accuracy, Precision & Errors

(Quia quiz: <http://www.quia.com/quiz/3507626.html>)

There is always an element of error in our measurements.

The **accuracy** of a measurement is how close it lies to the true value ("correct answer"). The **precision** of a measurement is how repeatable that measurement is.

Which of the dartboards shows:

- | | |
|--------------------------------------|-----------------------|
| 1. High precision and high accuracy? | Top - Middle - Bottom |
| 2. Low precision and low accuracy? | Top - Middle - Bottom |
| 3. High precision but low accuracy? | Top - Middle - Bottom |

Systematic error is an error that is the **same for all measurements** and can be adjusted. For example, a digital balance that is poorly calibrated might measure 0.5g too much each time.

Random error is **not consistent** between measurements and cannot be adjusted. For example, errors introduced by using different recording tools or people.

Which of the dartboards shows:

- | | |
|---|---|
| 4. Random error? Top - Middle - Bottom | 5. Systematic error? Top - Middle - Bottom |
|---|---|

Dartboard diagrams from http://preparatorychemistry.com/Bishop_Book_3_eBook.pdf



Measuring Temperature

Compare the glass thermometer with the temperature probe on the data logger.

Remember: Thermometers and dataloggers are NOT for stirring!

- ☐ Measure the temperature of the solution/ liquid – NOT the container
- ☐ Don't touch the thermometer or probe against the glass
- ☐ Wait for the temperature to stabilize before taking the reading

Glass thermometer °C (±)	
Temperature probe °C (±)	

Which would you choose to get quick readings of a reaction that changes temperature?

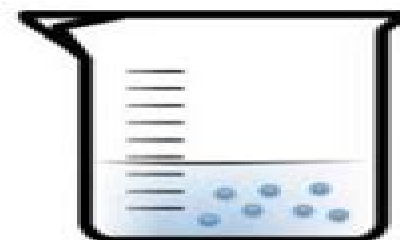
What is a Solution?

A solution is a **homogenous*** mixture of a substance in a liquid.

- The **solvent** is the liquid, e.g. water or alcohol, which dissolves the...
 - **Solute**, which is the solid, e.g. salt or sugar.
- ☐ Label the solvent and the solute in the diagram to the right.

*mixtures can be:

- **Homogenous** = evenly distributed, like solutions
- **Heterogeneous** = unevenly distributed, like soup or the oceans.



Beaker from: <http://www.wpclipart.com/science/beaker/beaker.png.html>

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Data-Driven Solutions to Transportation Problems Yin Hai Wang, Ziqiang Zeng, 2018-12-04 *Data Driven Solutions to Transportation Problems* explores the fundamental principle of analyzing different types of transportation related data using methodologies such as the data fusion model the big data mining approach computer vision enabled traffic sensing data analysis and machine learning The book examines the state of the art in data enabled methodologies technologies and applications in transportation Readers will learn how to solve problems relating to energy efficiency under connected vehicle environments urban travel behavior trajectory data based travel pattern identification public transportation analysis traffic signal control efficiency optimizing traffic networks network and much more Synthesizes the newest developments in data driven transportation science Includes case studies and examples in each chapter that illustrate the application of methodologies and technologies employed Useful for both theoretical and technically oriented researchers **True Visions**

Emile H.L. Aarts, José Luis Encarnação, 2006-12-13 Ambient intelligence AI refers to a developing technology that will increasingly make our everyday environment sensitive and responsive to our presence The AI vision requires technology invisibly embedded in our everyday surroundings present whenever we need it that will lead to the seamless integration of lighting sounds vision domestic appliances and personal healthcare products to enhance our living experience Written for the non specialist seeking an authoritative but accessible overview of this interdisciplinary field *True Visions* explains how the devices making up the AI world will operate collectively using information and intelligence hidden in the wireless network connecting them Expert contributions address key AI components such as smart materials and textiles system architecture

mobile computing broadband communication and underlying issues of human environment interactions It seeks to unify the perspectives of scientists from diverse backgrounds ranging from the physics of materials to the aesthetics of industrial design as it describes the emergence of ambient intelligence one of today s most compelling areas of innovation

Environmental Physiology and Biochemistry ,1974 **Science** John Michels (Journalist),2005 A weekly record of scientific progress Subject Guide to Books in Print ,1997 *Subject Guide to Children's Books in Print* 1997 Bowker Editorial Staff,R R Bowker Publishing,1996-09 *Computerworld* ,2004-04-05 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network *Grid Computing* Barry Wilkinson,2009-09-28 Designed for senior undergraduate and first year graduate students Grid Computing Techniques and Applications shows professors how to teach this subject in a practical way Extensively classroom tested it covers job submission and scheduling Grid security Grid computing services and software tools graphical user interfaces workflow editors Index Veterinarius ,2003 **Environmental Science** Janet Macfall,Steve Moore,2015-08-18 **Environmental Science** Janet Macfall,Patricia Thomas-Laemont,2017-08-17 *INIS Atomindex* ,1996 *Forthcoming Books* Rose Army,1999-04 **Environmental Science** Kim Largent,2011-12-22 **Index Medicus** ,2001-05 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Current Index to Journals in Education** ,1997 **Environmental Science Lab Manual** ,2025

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