



# PIXL KnowIT! GCSE Chemistry

## **AQA Topic - Chemical Analysis**

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CONTRACTOR DESCRIPTION OF THE PARTY OF THE P

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#### Purity, formulations and chromatography

- Pure substances
- Formulations
- Chromatography

#### Identification of common gases

- Test for hydrogen
- Test for oxygen
- Test for carbon dioxide
- Test for chlorine

#### Identification of ions by chemical and spectroscopic means (Chemistry only)

- Flame tests
- Metal hydroxides
- Carbonates
- Waltelow

### Overview Chemical Analysis



## **Pixl Chemistry Release 2014**

Lisa Regan

#### **Pixl Chemistry Release 2014:**

The Chemistry of Mars Inamuddin,2025-08-01 The Chemistry of Mars focuses on the chemical exploration of Mars with diverse viewpoints on the future of Mars research in terms of terrestrial missions. The holistic view of Mars s chemistry is elucidated through a full scale picture of current knowledge and future intentions and explorations including a review of temperature surface pressure wind dust cover water ice and CO2 surface ice. This book provides a dedicated resource for space and planetary scientists astrochemists and chemists looking beyond Earth applications including students academics and professionals Provides a complete overview of the chemistry of Mars including surface atmosphere and compositional elements Covers a broad range of topics including Mars s temperature surface pressure wind dust cover water ice and CO2 surface ice. Explores the topic with a future focused approach that covers current debate and discussion topics.

Contemporary Planetary Robotics Yang Gao, 2016-09-13 For readers from both academia and industry wishing to pursue their studies and or careers in planetary robotics this book represents a one stop tour of the history evolution key systems and technologies of this emerging field The book provides a comprehensive introduction to the key techniques and technologies that help to achieve autonomous space systems for cost effective high performing planetary robotic missions Main topics covered include robotic vision surface navigation manipulation mission operations and autonomy being explained in both theoretical principles and practical use cases The book recognizes the importance of system design hence discusses practices and tools that help take mission concepts to baseline design solutions making it a practical piece of scientific Guide to The Planets Richard Pearson, 2019-01-21 The reference suited to a variety of practitioners in planetary robotics night sky is a wonder from the fixed and almost changeless stars to the brief appearances of comets it offers a universe of fascinating objects to view With little more than a pair of binoculars or a small telescope millions of light years of space are available to all Guide to the Planets has been written by Richard Pearson with amateur astronomers in mind This book will quide you through space and introduce you to the pleasures of amateur astronomy **Low Temperature Materials and Mechanisms** Yoseph Bar-Cohen, 2016-08-19 This book addresses the growing interest in low temperature technologies Since the subject of low temperature materials and mechanisms is multidisciplinary the chapters reflect the broadest possible perspective of the field Leading experts in the specific subject area address the various related science and engineering chemistry material science electrical engineering mechanical engineering metallurgy and physics Clay on Mars Javier Cuadros, 2025-09-01 Clay on Mars Volume Twelve delves into the latest advancements in the exploration and characterization of Martian clay Edited by a team of experts the book compiles contributions from leading researchers in the field It begins with introductory content followed by a detailed examination of remote sensing instruments and in situ analyses from probes and rovers The initial chapters discuss lithologic and textural context clay stratigraphy and other fundamental aspects The book also explores clay from various sources including impact craters lakes seas and hydrothermal origins In addition it

covers detailed examinations of surface alteration diagenesis mixed layer clay minerals and the potential for astrobiology The book concludes with intriguing chapters on clays in meteorites and their potential as a natural resource for human missions on Mars making it a valuable resource for mineralogists and geologists Opens new avenues for research by describing state of the art and the strategic knowledge gaps in ways multiple disciplines can understand Clarifies how clay minerals which are small by definition are detected at large regional scales and what this means to different experts of various perspectives Highlights the impact of clay mineralogy for the most important topics in planetary science and Mars science **Reviews in** astronomy and space sciences Christopher H. K. Chen, Alberto Fairén, Jonathan Eastwood, Olga V. Khabarova, Georgios Balasis, Rudolf A. Treumann, Philip J. Erickson, Nuno C. Santos, Steve B. Howell, Matthew Parry, Daniel Hestroffer, Yanxia Zhang, Majdi Hochlaf, Ankan Das, Ryan C. Fortenberry, David Leisawitz, Lucia Kleint, Mauro D'Onofrio, Milan S. Dimitrijevic, Joseph M. Trigo-Rodiguez, Carrie Anderson, Zhonghua Yao, Chunshan Lin, Nadja S. Magalhaes, Guillem Domenech, 2024-05-24 Chemistry Is Explosive Lisa Regan, 2016-07-15 Chemical reactions are happening all around us and inside our bodies From a scab forming on a cut to the creation of carbon dioxide as a waste product there are so many ways chemistry plays a part in how the human body works Each spread of this colorful book offers readers a fascinating or surprising fact about popcorn flour or other familiar items and relates it to chemistry in understandable and age appropriate language These real life examples and explanations of chemistry in our world engage readers with important STEM concepts such as states of matter atoms acids and more

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