

Our Closest Star: The Sun

What is the Sun?

- The Sun is a star made of hot gas
- It gives out heat and light

Size of the Sun

- The Sun is much bigger than the Earth.

Distance of the Sun

- The Sun is very far away but the closest star to Earth.

Importance of the Sun

- The Sun provides heat and light for living things on Earth.



Illustration



Sun, Mercury, Venus, Earth, Mars

Notes

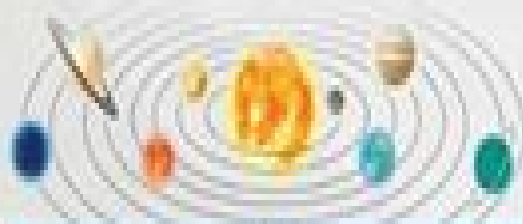
What is space?
We can see the
stars.

The Sun and Life

- The Sun gives the Earth the right amount of heat and light.
- The whole Earth is a perfect place for living things to survive.

Moving Around the Sun

- The Earth moves around the Sun in a path called an orbit.
- The Sun is at the center of the solar system.
- The Earth is one of eight planets in the solar system.



Summary Notes

Planet Earth and Beyond

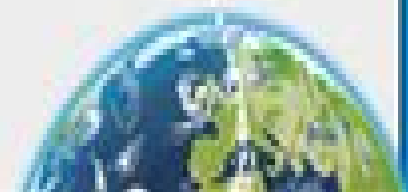
- Sphere:** A round shape like a ball.
- Continents:** Large areas of land (e.g. Africa, Asia).
- Orbit:** The path the Earth follows around the Sun.
- Solar System:** The Sun, planets and other objects in space.

Features of the Earth

- Shape of the Earth:** The Earth is a sphere made of layers of rock.
- Surface Features:**
 - The Earth's surface is covered by land, water and air.
 - Most of the Earth's surface is covered by water (oceans and seas).
 - The land we see is made up of continents (large pieces of land) and islands (smaller pieces of land).

Earth and Space

- The Earth is a planet in space.
- From the Earth, we can see the Sun, the moon and stars.



Technology Year 1life On Earth Notes

**National Research Council, Division on
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and Technology Board, Committee on
Source Removal of Contaminants in
the Subsurface**

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United States Code United States,2008 **Organic Chemistry** Jeffrey John Deakin,2024-05-23 Human benefit from the organic chemistry of plants is incalculable in terms of health food comfort and security Indeed the future well being of humanity rests in significant measure upon a responsible relationship with the plant kingdom in order to re establish balance in the Earth s natural environmental systems In a highly readable volume *Organic Chemistry Miracles from Plants* presents many fascinating points of entry to the organic chemistry of a wide range of crucially important naturally occurring chemical substances which are derived from plants Features Presents in a readable and accessible manner many fascinating points of entry to the organic chemistry of a wide range of crucially important naturally occurring chemical substances which are derived from plants Key concepts in and knowledge of organic chemistry are reinforced Highly relevant and contemporary context stimulates learning in organic chemistry Searching exercises and extension materials are provided at the end of every chapter each of which is amply illustrated In a single source this volume provides knowledge challenge and valuable learning opportunity in chemistry medicine nutrition and the environmental sciences Recipient of the 2025 American Botanical Council s James A Duke Excellence in Botanical Literature Award ABC has chosen *Organic Chemistry Miracles from Plants* due to its engaging and readable exploration into the role plants play in human lives and as a result creates an accessible introduction to the field of organic chemistry **Education Indicators** Laura Hersh Salganik,Nancy Matheson,Richard P. Phelps,1997-04 International education indicators provide the opportunity to compare America s performance with that of other countries to identify similarities and differences between our systems and others and to suggest new approaches to the challenge of providing a world class education Comparisons are among Canada France Germany Italy Japan the U K and the U S Students in the U S perform well in comparison with their peers in other countries in reading and less well in geography and science their weakest area is math Public financial investment in education in the U S is among the highest *Education Indicators* ,1996 **The Complete Family Office Handbook** Kirby Rosplock,2020-11-24 Discover new insights on how to setup manage and advise wealthy families and their family offices *The Complete Family Office A Guide for Affluent Families and the Advisors Who Serve Them* 2nd Edition represents the newest update to an essential series This book prepares the members of wealthy families to collectively manage sustain and grow their wealth across multiple generations It also assists professionals who advise families to better serve their needs This book teaches those who advise family offices and wealthy families on How to setup structure and advise a family office Current compliance fiduciary and risk management practices for a family office Forward thinking investment management estate

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sustainability performance This book provides a cross sectoral current picture of LCM issues The structure of the book is based on five theme lines The themes represent different objects that are focused on sustainability and LCM practices mainly related to products technologies organizations markets and policy issues as well as methodological solutions The book brings together presentations from the world of science and the world of enterprises as well as institutions supporting economic development **INIS Atomindex** ,1988 The Budget of the United States Government United States. Office of Management and Budget,1984 *Monthly Catalogue, United States Public Documents* ,1995 Stem Cell Wars Eve Herold,2006 Stem cell research expert Eve Herold s behind the scenes look at the controversial debate **School Life** ,1951 **STE*M: STEM Education for All** Marie-Louise Botha,Hanne Deprez,Oliver Holz,Robin Schaefferbeke,2025 STEM education which encompasses Science Technology Engineering and Mathematics is of paramount importance in the 21st century Currently there is a global call for a technologically skilled workforce for the 21st century workplace related to scarce skill subjects such as Mathematics Science ICT and Arts Furthermore these skills and jobs are not promoted effectively in wider communities In this era of rapid technological advancements and complex global challenges including a shortage of qualified STEM educators and under resourced schools STEM education is essential It equips individuals with critical skills for success through collaborative and interdisciplinary approaches The asterisk in STEM reflects its evolving nature promoting interdisciplinary collaboration to develop critical skills needed in a rapidly changing technology driven world The scope of the book is multi faceted and explores a range of practices and research contexts such as student STE M stimulated experiences transdisciplinarity diversity and inclusion in STE M education and science teaching in primary and secondary schools The contributions show different perspectives from Belgium Botswana Germany Namibia South Africa and the United States of America *Industrial Transformation* Theo J. N. M. de Bruijn,Vicki Norberg-Bohm,2005 A comparative analysis of environmental policy innovations in the United States and Europe that use voluntary collaborative and information based approaches

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well as the set up for conducting the reaction students should

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for the nitration 4.01 ml of nitric acid 4.00 ml of sulfuric acid and 4.56 ml bromobenzene were used to complete the reaction
with these measurements bromobenzene was found to be the limiting reagent since only 4.56 ml of bromobenzene was used
the amount of product predicted to be recovered was 8.7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction especially nitration of
methyl benzoate to give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure
methyl m nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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nitration of bromobenzene lab report improved essays 731 words 3 pages open document essay sample check writing quality show more this experiment was performed in order to demonstrate the principles of nitration through electrophilic aromatic substitution it also examined the effects of bromine on an aromatic ring ortho para vs meso directing

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then actual is your actual findings yield actual theoretical $\times 100$ what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 o

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1 bromo 4

nitrobenzene

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study with quizlet and memorize flashcards containing terms like reacting sulfuric and nitric acid together produces the nitronium ion alone nitric acid is not a strong enough electrophile to react with bromobenzene sulfuric acid is added to the nitric acid the reverse rxn can overheat and boil easily includes a claisen adaptor and

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0.6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion no₂⁺ which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4.0 ml of nitric acid and 4.0 ml of sulfuric acid and will then react with 4.5 ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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experimental spectra reaction a fluorobenzene stock fluorobenzene 1 h 1 h 19 f 19 f 13 c nmr fid for reference only sample 1 h 1 h 19 f 19 f 13 c nmr eas nitration of fluorobenzene crude product not available for submission for credit

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chem 2261 lab 5 nitration of bromobenzene introduction an electrophilic aromatic substitution reaction is an important process that allows for intermediate chemical structures to be used as precursors to pharmaceuticals and other industrially produced chemicals by adding different functional groups into an aromatic ring

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lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group

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