

1.1.4 An object with more electrons than protons will be:

- A Neutral
- B Negatively charged
- C Positively charged
- D Electronegatively charged

1.1.5 Example of a translucent object

- A clear glass
- B wax paper
- C ceramic mug
- D aluminium foil

1.1.6 Which of the following does NOT affect the shape of a shadow?

- A shape of the object
- B distance object from the light source
- C the position of the light source
- D the time that the light source is on

1.1.7 The variable referred to in the diagram as I below is known as the:



- A Incidental ray
- B Reflected ray
- C Angle of incidence
- D Angle of reflection

1.1.8 Effect when bringing TWO positively charged objects in contact with each other

- A attraction
- B repulsion
- C none
- D A and B

[3x1]

1.2 Provide the correct TERM for the following descriptions. Write ONLY the correct TERM next to the QUESTION NUMBER (1.2.1-1.2.5) on your answer sheet.

1.2.1 Substance that cannot conduct current.

1.2.2 Smallest working part of a battery.

1.2.3 Type of energy found in a battery.

1.2.4 A temporary magnet.

1.2.5 Number of waves that pass a certain point in one second.

[1x5]

1.3 Fill in the blanks of the following paragraph. Write only the WORDS next to the QUESTION NUMBER on your answer sheet.

Light is called waves because it travels in a regular repetitive pattern. The highest points are called peaks and the lowest points are called 1.3.1 _____. White light consists out of a spectrum of light. This spectrum of light consists of seven colours in the order 1.3.2 _____, orange, yellow, 1.3.3 _____, blue, indigo, violet.

Red has the 1.3.4 _____ wavelength and therefore the lowest 1.3.5 _____.

For us to observe a colour it has to be 1.3.6 _____. There are two types of reflection, 1.3.7 _____ reflection from a smooth surface and 1.3.8 _____ reflection from a rough surface.

[7]

1.4 Match the description in Column A to the term in Column B. Write only the LETTER next to the QUESTION NUMBER e.g. 1.4.5 G.

Column A	Column B
1.4.1 Objects that emit their own light	A Opaque
1.4.2 Breaking up of white light	B Translucent
1.4.3 Colour observed by an object that absorbs all frequencies	C Black
1.4.4 Objects that do not allow any light to pass through	D Luminous
	E Transparent
	F Dispersion

[6]

[Total Section A: 26]

Grade 8 Memorandum For Natural Science 2014

Paul A. Wagner, Frank K. Fair



Grade 8 Memorandum For Natural Science 2014:

Education for Knowing Paul A. Wagner, Frank K. Fair, 2020-10-30 If our goal is Education for Knowing as the title says then we need to be guided by a conception of what knowing is For example we can all agree that there are math facts that students need to learn and we can agree that there are general concepts and laws that students should be acquainted with But is there more involved perhaps something like nurturing in students a desire to probe deeper into the workings of thing Or developing a capacity to explain why things work the way they do Our conceptions of what genuine knowing is serve as guides to what we think the goal of education is and they tell us how to build a student However as it turns out there are multiple conceptions of what knowing truly involves and these conceptions tend to be different for different sets of education stakeholders such as parents and their children school administrators and educational researchers Understanding this diversity of conceptions of knowing will make it easier for representatives of the different stakeholder groups to work together to accomplish the goal of building knowing students

Interior, Environment, and Related Agencies

Appropriations for 2015 United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies, 2014 *Interior, Environment, and Related Agencies Appropriations for 2015:*

Justification of the budget estimates: National Park Service; U.S. Geological Survey United States. Congress. House.

Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies, 2014

Handbook of

Automated Scoring Duanli Yan, André A. Rupp, Peter W. Foltz, 2020-02-26 Automated scoring engines require a careful balancing of the contributions of technology NLP psychometrics artificial intelligence and the learning sciences The present handbook is evidence that the theories methodologies and underlying technology that surround automated scoring have reached maturity and that there is a growing acceptance of these technologies among experts and the public From the Foreword by Alina von Davier ACTNext Senior Vice President Handbook of Automated Scoring Theory into Practice provides a scientifically grounded overview of the key research efforts required to move automated scoring systems into operational practice It examines the field of automated scoring from the viewpoint of related scientific fields serving as its foundation the latest developments of computational methodologies utilized in automated scoring and several large scale real world applications of automated scoring for complex learning and assessment systems The book is organized into three parts that cover 1 theoretical foundations 2 operational methodologies and 3 practical illustrations each with a commentary In addition the handbook includes an introduction and synthesis chapter as well as a cross chapter glossary

Handbook of Cannabis

for Clinicians Dustin Sulak DO, 2021-06-29 The first foundational text on the clinical use of cannabis and cannabinoid therapies Despite thousands of years of medical use and an impressive record of safety versatility and efficacy Cannabis sativa has existed outside the modern pharmacopeia since the 1940s Primarily driven by popular demand this botanical has returned to health care but most clinicians lack the knowledge essential for identifying candidates for treatment guiding

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Nanobiotechnology Sougata Ghosh,Thomas J Webster,2021-05-20 Nanobiotechnology Microbes and Plant Assisted Synthesis of Nanoparticles Mechanisms and Applications covers in detail the green synthesis of nanostructures of tailor made size shape and physico chemical and opto electronic properties The rationale behind the selection of bacteria cyanobacteria algae fungi virus and medicinal plants for the synthesis of biologically active exotic nanoparticles for biomedical applications is also part of this book It also explores metal recovery bioconversion detoxification and removal of heavy metals using nanobiotechnology and discusses the potential of nanobiotechnology to address environmental pollution and toxicity The book further covers the economic and commercial aspects of such green nanobiotechnology initiatives its current status in intellectual property rights like patents filed so far globally technology transfers and market potential This information enables one to decipher the scope of biogenic nanoparticles and its prospects Provides an overview on the general and applied aspects on nanotechnology Gives the scope of exploring bacteria fungi algae virus and medicinal plants for the synthesis of exotic nanoparticles Furnishes a comprehensive report on the underlying molecular mechanisms behind the biosynthesis of nanoparticles Outlines sustainable alternative strategies of bioremediation of heavy metals metal recovery detoxification and bioconversion using nanobiotechnology Explores the promises of patenting technology transfer and commercialization potential of biogenic nanoparticles

Impacts of Marine Litter Luisa Galgani,Ricardo Beiras,Francois Galgani,Cristina Panti,Angel Borja,2019-08-15

Comprehensive Toxicology ,2017-12-01 Comprehensive Toxicology Third Edition Fifteen Volume Set discusses chemical effects on biological systems with a focus on understanding the mechanisms by which chemicals induce adverse health effects Organized by organ system this comprehensive reference work addresses the toxicological effects of chemicals on the immune system the hematopoietic system cardiovascular system respiratory system hepatic toxicology renal toxicology gastrointestinal toxicology reproductive and endocrine toxicology neuro and behavioral toxicology developmental toxicology and carcinogenesis also including critical sections that cover the general principles of toxicology cellular and molecular toxicology biotransformation and toxicology testing and evaluation Each section is

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