



Unit Name and Number	Week No.	Content Headings	Key Sub-Topics / Context / Vocabulary	Projects / Graded Assignments	Question Style for Exam	Justification for Exam Content: Bloom's Taxonomy	Government Objectives
Light and Vision Unit 4	1	The Movement of Light Activities: 4.1 The Movement of Light. Light Sources and Solar Cells.	Light, Movement, Sunlight, moonlight, electric, light, traffic light, flashlight, candle, natural, artificial, light bulbs stars lamps sun fire, moon, sun, stars, fire, fireflies	A Group discussion on the movement of light. Experimental survey on light sources. Pages: 78 - 81 (10 points for each objective)	Short Answers -Fill in the blank	Analyse Presents Open-ended questions that require students to create an answer. It tests the student's ability to remember, understand, analyze information and apply it to the question.	SC5.1 Gr 4/1 Experiment and explain the motion of light from its source. SC5.1 Gr 4/1 Experiment and explain the motion of light from its source.
Light and Vision Unit 4	2	Solar Cells Activities: 4.2 Solar Cells	solar panel, Solar, cell, calculator, wristwatch, vehicle, spaceship, light, bulbs, stars, lamps, sun, fire, fireflies	A survey on natural and artificial sources of light. Pages: 82 - 888 (10 points for each objective)	Short answers -Fill in the blank	Analyse Presents Open-ended questions that require students to create an answer. It tests the student's ability to remember, understand, analyze information and apply it to the question.	SC5.1 Gr 4/5 Experiment and explain the transformation of light into electrical energy and put it into practice.
Light and Vision Unit 4	3&4	Movement of Light Through a Medium Activities: 4.3 Types of Media	Air, water, glass, medium Medium, translucent, opaque, film, ruler, wood, flashlight, mirror, string, tape, ball, shadow,	A spelling test on light and vision. Setting up experiments to observe light reflection in different media. Pages: 89 - 93	Multiple choice questions	Analyse It presents divergent thinking and convergent thinking questions that require students to choose from a list of possible answers with one correct answer, and two to four "distractor" choices that are not correct. It tests student's ability to remember, understand, analyze and apply it to the question.	



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Light and Vision Unit 4	5	Light Reflection Activities:	Light, reflection, incident ray, reflected ray, normal, surface, Angle of incident, angle of reflection, bounces, smooth, surface, rough surface	Draw and explain ray diagrams to demonstrate reflection of light. Pages: 94 - 97 (10 points for each objective)	Short Answers - label a diagram with answers in a word pool	Apply Presents questions that require students to choose the most appropriate answer from a word pool to label a diagram. It tests student's ability to remember, understand and apply the information to the question.	SC5.1 Gr 4/2 Experiment and explain the reflection of light on objects.
Light and Vision Unit 4	6	Light and Shade Activities: Try o ut activity with body parts and light.	Shadow, light, barrier, Umbra, penumbra, obstacle, straight, shadow	Demonstrate the formation of a shadow. Pages: 97 - 99 (10 points for each objective)	Multiple choice questions	Analyse It presents divergent thinking and convergent thinking questions that require students to choose from a list of possible answers with one correct answer, and two to four "distractor" choices that are not correct. It tests student's ability to remember, understand, analyze and apply it to the question.	SC5.1 Gr 4/2 Experiment and explain the reflection of light on objects.



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Light and Vision Unit 4	7	Refraction Activities: 4.5 Refraction	Refracted ray, bend, incident ray, normal, medium, travel, glass, water, air	Differentiate between reflection and refraction. Pages: 100 - 105 (10 points for each objective)	Short Answers - label a diagram with answers in a word pool	Apply Presents questions that require students to choose the most appropriate answer from a word pool to label a diagram. It tests student's ability to remember, understand and apply the information to the question.	SC5.1 Gr 4/4 Experiment and explain the refraction of light passing through two kinds of transparent mediums.
Light and Vision Unit 4	8	White light and rainbows Activities: 4.6 The Solar Spectrum	Rainbow, Prism, red, orange, yellow, green, blue, indigo, violet	For a rainbow using materials from the lab and explain it. End of unit test. Pages: 104 - 114 (10 points for each objectives)	Multiple choice questions	Analyse It presents divergent thinking and convergent thinking questions that require students to choose from a list of possible answers with one correct answer, and two to four "distractor" choices that are not correct. It tests student's ability to remember, understand, analyze and apply it to the question.	SC5.1 Gr 4/6 Experiment and explain that white light comprises various coloured lights and put it into practice.
Review for Midterm	9	Review for Mid-term Review for Midterm	Word drilling	Defining vocabulary words and spellings.	N/A	N/A	N/A



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Mid tem Exams	10	Mid-term exams					
		Mid-term exams	Word drilling	Defining vocabulary words and spellings. 20 points	N/A	N/A	N/A
Light and Vision Unit 4	11&12	Vision Activities: Know it (Types of Lenses)	Eyeglasses, Vision, opaque objects, image, eye, Lens, concave, convex, farsight, long sight, short sight, nearsight, Biconvex, biconcave, refract, light, medium, glass, air, focus, focal point, focal length	Group discussion on vision. Name the different types of lenses. Differentiate between convex lens and a concave lense. Pages: 115 - 117 (10 points for each objective)	Short Answers - Fill in the blank. Answers in a form of a comparison - completing a table	Analyse Presents Open-ended questions that require students to create an answer. It tests the student's ability to remember, understand, analyze information and apply it to the question.	SC5.1 Gr 4/3 Experiment and classify objects based on visualising from sources of light. SC5.1 Gr 4/3 Experiment and classify objects based on visualising from sources of light.
Light and Vision Unit 4	13	Eyes and Vision Activities: Learning Activity 4.3 Vision	Eye, pupil, eyeball , Iris, lens, retina, eye, muscle, cornea, convex, lens, concave, lens	Draw and label diagrams of the human eyes. End of unit test Pages: 117 123 (10 points for each objective)	Short Answers - label a diagram	Analyse Presents open-ended questions that require students to create an appropriate answer and use it to label a diagram. It tests student's ability to remember, understand, analyze and apply the information to the question.	SC5.1 Gr 4/3 Experiment and classify objects based on visualising from sources of light.



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Solar System Unit 5	14	Order of planets Activities: Order of Planets 5.1.1 The sun	Solar power, Sun, sunlight, heat, energy, hydrogen, helium, earth	Make a list and diagram of planets in their correct order. Pages: 129 (10 points for each objective)	Short Answers -Fill in the blank	Analyse Presents Open-ended questions that require students to create an answer. It tests the student's ability to remember, understand, analyze information and apply it to the question.	SC7.1 Gr 4/1 Make a model to explain the characteristics of the solar system.
Solar System Unit 5	15 & 16	The Solar system Activities: 5.1.2 The planets	Planets, Solar system, sun, star, solar, system	A presentation on the solar system giving distinguishing features of each planet. Pages: 129 - 133 (10 points for each objective)	True or False questions	Understand Present a statement, and prompt the student to choose whether the statement is truthful. It tests the student's ability to remember and understand information in order to choose the truthful statement.	SC7.1 Gr 4/1 Make a model to explain the characteristics of the solar system.



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Solar System Unit 5	17	Planets Activities: 5.1 Exploring the Planets 5.2 Make a Model of the Solar System	Planets Sun, mercury, venus, earth, mars, jupiter, saturn, uranus, neptune, pluto	Make a model of the solar system. Pages: 134 - 138	Multiple choice questions	Analyse It presents divergent thinking and convergent thinking questions that require students to choose from a list of possible answers with one correct answer, and two to four "distractor" choices that are not correct. It tests student's ability to remember, understand, analyze and apply it to the question.	SC7.1 Gr 4/1 Make a model to explain the characteristics of the solar system.
Solar System Unit 5	18	Space 5.1.3 Dwarf Planets 5.1.4 The Moon 5.1.5 Asteroids 5.1.6 Comets 5.1.7 Meteors	Space Space craft, rocket, space, Space, cloud, spaceship, shuttle, satellite, sun, moon	Explain the other objects in space apart from planets. End of unit test. Pages: 138 - 144 (10 points for each objective)	Short Answers - Fill in the blank with answers in a word pool	Apply Presents open-ended questions that require students to choose the most appropriate answer from a word pool. It tests student's ability to remember, understand information and apply it to the question.	SC7.1 Gr 4/1 Make a model to explain the characteristics of the solar system.
End of term review	19	Review for Final exams Review	Word drilling	Defining vocabulary words and spellings.	N/A	N/A	N/A
End of term Exam	20	Final exams Final exams	Word drilling	Defining vocabulary words and spellings. 30 points	N/A	N/A	N/A