



Dubai International Private School - BR.

DIPS, in partnership with parents and community, strives to ensure all students are digitally literate, lifelong learners, productive citizens and nurture their well-being in an inclusive learning environment.

"Empowering Minds, Inspiring Hearts, Shaping the Future"

"تمكين العقول، إلهام القلوب، تشكيل المستقبل"



Science Department

Semester: 1

2026-2027

Grade Level		1	Subject: Science			
Teacher(s) Name		Ms. Iman / Ms. Chloe/ Miss Rabah				
Textbook		HMH Science				
Week #	Dates		Lesson Title / Pages			NGSS Standards
1	Aug 31	Sept 4	Orientation Week Science classroom routines and safety What is science? Observe, ask questions, and share ideas.			SEP: Asking Questions and Defining Problems
2	Sept 7	Sept 11	Unit 1: Engineering and Technology Lesson 1: Engineer It! - How Do Engineers Use Technology? Essential Question: How do engineers use technology to solve problems? Vocabulary: engineer, technology, tool, design, problem, solution Hands-On Activity: Identify examples of technology and match each tool to the problem it helps solve. Assessment: Teacher observation + exit ticket			K-2-ETS1-1 + IXL Practice
3	Sept 14	Sept 18	Unit 1: Engineering and Technology Lesson 2: How Can We Solve a Problem? Essential Question: How can we use the engineering design process to solve a problem? Vocabulary: problem, solution, plan, design, model, test, improve Activity: Identify a classroom problem; draw and label a possible solution. Project: Design drawing + oral explanation			K-2-ETS1-1; K-2-ETS1-2 + IXL Practice
4	Sept 21	Sept 25	Unit 1: Engineering and Technology Engineering Challenge: Plan, Build, Test, Improve Vocabulary: build, test, compare, improve, evidence Hands-On Activity: Build a simple model from classroom			K-2-ETS1-2;

			materials, test it, and improve the design. Project: Engineering design checklist + student reflection	K-2-ETS1-3 + IXL Practice
5	Sept 28	Oct 2	Unit 1 Review and Assessment Review: Engineers, technology, problems, solutions, models, testing and improvement Project: Explain how an engineer solves a problem from beginning to improvement. Assessment: Unit 1 performance task + short quiz Fall Science Map	K-2-ETS1-1; K-2-ETS1-2; K-2-ETS1-3 + IXL Practice
6	Oct 5	Oct 9	Unit 2: Sounds Lesson 1: What Is Sound? - Make Something Move with Sound Essential Question: What is sound and what causes it?. Vocabulary: sound, vibration, vibrate, movement, observe Hands-On Activity: Use safe classroom objects to make sounds and observe vibration; make a lightweight object move using sound. Assessment: Investigation recording sheet + teacher observation	1-PS4-1 + IXL Practice
	Oct 12	Oct 16		
7	Oct 19	Oct 23	Unit 2: Sounds Lesson 1 Investigation and Application - Make Something Move with Sound Vocabulary: evidence, vibration, sound, movement Hands-On Activity: Repeat a sound investigation, compare observations, and explain cause and effect. Assessment: Science notebook + oral explanation	1-PS4-1 + IXL Practice
8	Oct 26	Oct 30	Unit 2: Sounds Lesson 2: How Can We Communicate with Sounds? - Communicate over Distance Essential Question: How can sound help us communicate over a distance? Vocabulary: communicate, message, distance, signal, sound Hands-On Activity: Explore sound signals and plan a device that communicates a message across a distance. Assessment: Design plan + teacher questioning	1-PS4-4 + IXL Practice
9	Nov 2	Nov 6	Unit 2: Sounds Engineering Application: Communicate over Distance	1-PS4-4; K-2-

			Hands-On Activity: Build and test a simple sound communication device; compare how well designs work. Assessment: Performance task + design checklist	ETS1-2; K-2- ETS1-3 + IXL Practice
10	Nov 9	Nov 13	Unit 2 Review and Assessment Review: sound, vibration, movement, communication and distance Project: Explain how vibration and sound are connected and how sound can carry information. Assessment: Unit 2 investigation review + short assessment	1-PS4-1; 1-PS4-4 + IXL Practice
11	Nov 16	Nov 20	Unit 3: Light Lesson 1: How Does Light Help Us See? - Make Observations in Different Light Essential Question: How does light help us see objects? Vocabulary: light, see, dark, illuminate, observe, source Project- Investigation: Observe the same object in bright light, dim light, and darkness. Assessment: Observation chart + exit ticket	1-PS4-2 + IXL Practice
12	Nov 23	Nov 27	Unit 3: Light Lesson 1 Application - Make Observations in Different Light Learning Objective: Use observations as evidence to explain how changing the amount of light changes what we can see. Vocabulary: brightness, dim, dark, evidence, observe Hands-On Activity: Compare objects under different lighting conditions and record evidence. Assessment: Science notebook + discussion	1-PS4-2 + IXL Practice
13	Nov 30	Dec 4 National Day	Unit 3: Light Lesson 2: How Do Materials Block Light? - Test How Light Passes through Materials Essential Question: What happens when light reaches different materials? Vocabulary: material, transparent, translucent, opaque, block, light Project- Investigation: Shine light on safe classroom materials and classify the results. Assessment: Investigation table + teacher observation	1-PS4-3 + IXL Practice
14	Dec 7	Dec 11	Unit 3: Light Lesson 2 Application - Test How Light Passes through Materials Vocabulary: transparent, translucent, opaque, reflect, evidence Hands-On Activity: Sort materials by how they interact with light and justify each classification. Assessment: Classification task + exit ticket	1-PS4-3 + IXL Practice

	Dec 14	Jan 1		
15	Jan 4	Jan 8	Unit 3: Light Lesson 3: How Does Light Travel? - Test What Happens to Light Essential Question: What happens when light reaches an object or material? Vocabulary: light, path, reflect, block, transparent, translucent, opaque Project- Investigation: Direct light toward different materials and observe whether it passes through, is blocked, or changes direction. Assessment: Investigation sheet + teacher questioning	1-PS4-3 + IXL Practice
16	Jan 11	Jan 15	Unit 3 Review and STEM Application STEM Task: Choose materials for a design that needs to let light through, reduce light, or block light. Assessment: Unit 3 performance task + review	1-PS4-3; K-2-ETS1-2 + IXL Practice
17	Jan 18	Jan 22	Semester 1 Science Review and Assessment Review Unit 1: Engineering and Technology Review Unit 2: Sounds Review Unit 3: Light Assessment: Semester 1 review / practical stations	K-2-ETS1-1; K-2-ETS1-2; K-2-ETS1-3; 1-PS4-1; 1-PS4-2; 1-PS4-3; 1-PS4-4
18	Jan 25	Jan 29	Semester 1 Science Assessment and Reflection Students demonstrate understanding through age-appropriate questions, observations, models, and explanations. Reflection: What did I learn as a scientist and engineer?	K-2-ETS1-1; K-2-ETS1-2; K-2-ETS1-3; 1-PS4-1; 1-PS4-2; 1-PS4-3; 1-PS4-4