

IB PYP Curriculum Map: KG2 How the World Works

Transdisciplinary Theme	How the World Works	Central Idea	Light and sound affect the way we experience the world.	Subject Integration	Language, Mathematics, Arts, Library, ICT, Science	Dates	9th April - 18th May
Learner Profile Attributes & Attitudes	Inquirers Thinkers Curiosity Enthusiasm	Targeted Approaches to Learning	Thinking Skills Communication Skills Research Skills	Lines of Inquiry & Key Concepts	<ul style="list-style-type: none"> • Forms of light and sound (form) • Purposes of light and sound (function) • Manipulating light and sound (change) 		
Summative Assessment	<ol style="list-style-type: none"> 1. Goal: Understand and explain that light and sound take different forms and can be manipulated 2. Product/Performance: Think 1 / Think 2 Reflection 3. Success Indicators: The children will be able to use appropriate vocabulary to explain and demonstrate their understanding 			Key Questions	<ul style="list-style-type: none"> • What would our world be like without light and sound? • What is light and sound? • How are shadows and echoes formed? • Why are light and sound important? • Where might light come from? • How might light and sound be useful? • How can we manipulate light and sound? 		
Unit of Inquiry Integrated and Stand-Alone Learning Outcomes							
Language Arts	Students will express and communicate their knowledge of light and sound through pictures and spoken language. They will describe and record their observations of science experiments through drawing and note taking. Students will read and discuss non-fiction texts related to light and sound. Students will reflect on their learning experiences throughout the unit.						
Mathematics	Students will learn how to tell time to the hour and list the days of the week in order. They will experiment with shadows to explore changes in time during the day. We will use the daily schedule to sequence the events of the day and discuss activities outside of the school day. As part of Shape and Space we will learn the names of 2D shapes and build with 3D shapes, recognising the similar features between different shapes. Students will use the language of shape and positional language to describe shadows that they have created during class science experiments.						
Library	Stories using light and shadow puppets will be introduced to students. Students will look at how stories can be created using colour/light/shadows and shading. Students will work on making their own shadow puppets and tell their own stories using these (Drawing cutting and making puppet shows for each other). They will look at how different authors use light/shades and shadows to bring illustration to life in books. Students will get creative with collages whilst studying the work of Eric Carle and be introduced to new authors and begin to locate books that they can read or read in part, as they work towards building self confidence in the library. The students will be looking at productions from around the world using the Lighthouse projector, focusing on real life drama's and famous stories.						
Technology Integration	Students will inquire into changing light, electricity (basic circuits) and sound sources and their uses. Students will solve a series of challenges involving light and sound revolving around the story of 'The Three little Pigs' and designing and making a house for the characters. Through a variety of websites, students will further their understanding of light sources, shadows and sound.						
Music	Students will learn to discriminate between high and low sounds. They will explore different melodic lines in simple songs using hand movement, their voices and xylophones. Students will learn to sing a new repertoire of short songs focusing on pitch. They will also be encouraged to create and perform their own short melody.						
PE	Students will participate in a Gymnastics Unit that will encourage a wide range of movements on mats and using various pieces of gymnastic equipment. Students will be encouraged to explore different movements that will personally challenge. Locomotion, flight, balance, rotation will be common themes throughout the unit. Students will work as individuals, in small groups or in whole class learning activities.						

Visual Arts	Students will continue their Art & Light UOI (How The World Works). They will explore how light can affect the way we experience and create art. Students will discover how light is important for glass window art, photographic sun prints and the mixing of tints and shades with paint. They will also learn about abstract painting and create an artwork in response to a piece of music.
Counseling & PSE	Students will continue to look into ways of resolving conflicts and extending compassion to others in the community.
Incursions & Excursions	The KG2 hallway will be transformed into a science discovery center and the students will visit the Planetarium to explore sources of light and sound