



MILESTONE PHYSICS

The Milestone School

Outcomes

Electricity	
	 Will use recognised symbols when representing a simple circuit in a diagram.
	 Will recognise some common conductors and insulators, and associate metals with being good
	conductors.
	 Will compare and give reasons for variations in how circuit components function, including brightness of
	bulbs, loudness of buzzers and on/off switches, make connections with energy consumption, cost and
	how to minimise this
	 Will make a useful circuit, identify some key components and their function (for example energy cell.
	switch)
	 Will participate in activities which explore the impact of a switch opening and closing useful circuits
	 Will be able to make a basic circuit identify some key components and how they contribute to
	operating an electrical appliance
	 Will name even day items that use electricity and know how to use them safely.
	Will be able to experience using electrical devices for a purpose
	Will be oble to experience using electrical devices for a purpose
	 Will definitly common terms include electrony Will use a switch to three algorithms and other electrony
	Will use a switch to form electrical devices of and off
F	
Forces and Magr	
	Will encounter the forces push and pull
	 Will know that the force push or pull can be used to make something move
	 Will notice contact needs to be made for a push or pull force to happen
	 Will be able to experience a range of forces and motion
	 Will be able to respond to key vocabulary and know that friction can alter the force needed to move
	an object.
	 Will compare how things move on different surfaces.
	 Will notice that magnetic forces can act at a distance
	 Will compare and group together a variety of everyday materials on the basis of whether they are
	attracted to a magnet,
	 Will identify some magnetic materials.
	 Will Describe magnets as having two poles
	 Predict whether two magnets Will attract or repel each other, depending on which poles are facing
	 Will explain that unsupported objects fall towards the Earth because of the force of gravity acting
	between the Earth and the falling object.
	 Will identify how forces can change under different conditions (e.g., air/water resistance and friction)
Liaht	
_	Will encounter different sources of light
	Will patice light and dark
	 Will recognise that he (she needs light in order to see things and that dark is the absence of light
	 Will recognise that light from the sun can be dangerous and that there are ways to protect eves
	 Will experience a range of activities which explore a range of light effects
	Will explore that light is reflected from surfaces
	 Will notice that light is relieved not is solucies Will respond to activities which evolve the effects of light dark and shadow.
	 Will respond to derivities which explore the effects of light, data and and dow Will project that shadowir have the same shape as the objects that east them.
	 Will fold patters in the way that the same single ds me objects find cds mem Will find patters in the way that the same single ds me objects find cds mem
	Will the partents in the way find the size of strategic charge
	 Will be object the standard of the straight lines in a straight lines. Will be object to straight the straight lines to available that a block are seen because they give out
	 Will use the idea indiright indiversity straight lines to explain that objects are seen because they give out
	or reflect light into the eye.
	 Will explain that we see mings because light travels from light sources to our eyes of from light sources to able at an all then the set of t
	objects and then to our eyes.
	 vviii use the idea that light travels in straight lines to explain why shadows have the same shape as the ships to the straight the result the result of the same shape as the
	objects that cast them
sound	
	 will experience nearing alterent sounds Mill explane medicine different equals
	 Will explore making different sounds
	 Will be able to compare and describe sounds
	 Will be able to make different sounds purposefully
	 Will experience a range of activities that explore sound and vibration
	 Will identify how sounds are made, associating some of them with something vibrating.
	 Will have a basic understanding of how sound travels to the ear and how it can be affected.
	 Will respond to key vocabulary linked to sound including pitch, vibrations and volume.
	 Will find patterns between the pitch of a sound and features of the object that produced it.
	 Will find patterns between the volume of a sound and the strength of the vibrations that produced it.
	 Will recognise that sounds get fainter as the distance from the sound source increases.
Space	
	 Will be able to experience activities which explore the solar system
	 Will identify Earth, sun and moon
	 Will describe the Sun, Earth and Moon as approximately spherical bodies
	 Will be able to name some of the planets in the solar system
	 Will be able to identify some characteristics of different planets and the sun
	 Will describe the movement of the Moon relative to the Earth
	 Will describe the movement of the Earth, and other planets, relative to the Sun in the solar system.
	 Will understand how the movement of the earth relative to the sun affects our world. (e.a. day/night
	seasons)