

## Medium Term Plan: Supporting Implementation of LTP/Progression Grid

Subject: Science                      Year: KS1 Year A Energy – Light (3 week unit) NC/PoS: <ul style="list-style-type: none"><li>• Unit designed to introduce children to energy (electricity, light, sound, and forces) before studying national curriculum units in LKS2</li></ul>
Prior Learning (what pupils already know and can do) Know lights are switched on and off in the house, school and outside
End Goals (what pupils MUST know and remember) <ul style="list-style-type: none"><li>• Know that light sources give out light and the sun is a light source</li><li>• Know that light is essential for seeing things</li><li>• Know that sources of light show up best at night-time</li></ul>
Key Vocabulary: opaque, translucent, transparent, natural sources, artificial light, dangerous, sunburn, protection, light rays
Session 1: Recap: properties of materials –opaque, translucent, transparent  Children learn that we need light to see Know that light is a form of energy Know that the eyes take in light so we can see Know that you cannot see anything when there is no light  Suggested activities: <a href="https://www.youtube.com/watch?v=QsRcNthWGEs">https://www.youtube.com/watch?v=QsRcNthWGEs</a> what is light Use of a black out tent  Vocabulary: opaque, translucent, transparent
Session 2: Recap: what can you see in the absence of light Know light sources give out light Know natural light sources are sun, stars, candle flame, fire Know artificial light sources are light bulbs, florescent lighting, computer screens Suggested activities: <a href="https://www.youtube.com/watch?v=01SAxjPZbRM">https://www.youtube.com/watch?v=01SAxjPZbRM</a> examples of natural and artificial sources What sources of light are there in school? Sort a selection of objects into natural or artificial  Vocabulary: natural sources, artificial light
Session 3: Children learn the dangers of the sun Know that light from the Sun is very strong and can damage your eyes Know the eyes can be protected by wearing dark glasses Know to never look directly at the sun ultraviolet light - is a form of radiation which is not visible to the human eye. sunburn - ultraviolet rays can burn our skin cells, the skin gets red and feels warm. Vocabulary: dangerous, ultraviolet light, radiation, sunburn, protection
Link to career scientist: <a href="#">Teach children about the job of an optician.</a>