Leintwardine Endow				g Journey Itinerary		
'Letting Our Light Shine'						
SUBJECT : Science	YEAR : B	TERM : Au	tumn 1	YEAR GROUPS : 5/6		
Key Question: What materials are changeable and which are not?						
Previous Knowledge – We would expect children to already be able to: Identify a materials state, solid, liquid of gas, and discuss their properties from this. They will understand that some materials states will changed based on heated or cooled. END OF UNIT OBJECTIVES						
Some children will not yet have met what is expected and will show that they are emerging because they can:	Most children will show that they have reached the expected level because they		Some children will have gone beyond the expected level and will show that they are exceeding because they can:			
emerging because they can: identify some materials. describe some materials' properties. identify some thermal and electrical conductors and insulators. with support, identify some materials that are soluble or insoluble in water. with scaffolding, follow instructions to separate mixtureswith support, identify irreversible changes. make simple predictions about what will happen in an investigation. make observations and then simply record their findings.	can: follow instructions to test a material's properties. explain the uses of thermal and electrical conductors and insulatorsorder materials according to their electrical conductivity. explain and investigate dissolvingexplain the processes used to separate mixtures. explain irreversible changes. identify the variables in an investigation and with some prompts, identify dependent, independent and controlled variables. make observations and conclusions. be able to answer questions based on their learning.		 devise their own ways to test a material's properties. explain the uses of a material according to its properties. explain why materials have dissolved in certain conditions. select and explain the most suitable processes to separate different mixtures. identify the new materials made in irreversible changes. identify dependent, independent and controlled variables. set up reliable and accurate investigations. make and explain predictions. use scientific language to explain their findings. use their results to make generalisations and further predictions. be able to ask and answer questions based on their learning using scientific language. 			

Children's work will be monitored for understanding at all times. Children will be encouraged to ask questions at all times to enable them to clarify their understanding and avoid misconceptions.

ENRICHMENT	SUBJECT SPECIFIC VOCABULARY	CROSS-CURRICULAR
OPPORTUNITIES	States of matter, materials, natural, human	LINKS
Helping children to remember	made, magnetic, reflective, absorbent,	Links that we can make
more	permeable, translucent, flexible, hard,	to help children make
	flammable, insulating, transparent, solids,	sense of what we want
Children will complete the	liquids, gases, particles, melting, freezing,	them to know and be
experiments themselves to will	evaporating, condensing, conductivity	able to do.
see the changes first hand,	(electrical and thermal), flexibility, hardness,	
making it more memorable.	insulators, magnetism, soluble, insoluble,	Maths – presenting data
	solubility, transparency, sieving, filtering,	English – write up of
	reversible change, irreversible change,	experiments
	reactants, mixing, dissolving.	