Lesson/Activity Planner

Name: Marianne Quinsee	Date:	Subject: Science	Whole class	Year group: 3
Professional Development Focus (Proportion weekly review meeting/previous Transported and Indian Professional Development Focus (Professional Development Focus (Professiona Development Focus (Professiona Development Focus (Professiona Development Focus (is lesson observation)	What have you learr	t in relation to your own profession	al development?
To model using equipment recording how to use the equipment and what				
Any other implications for your tead I will need to review prior learning, a				
Learning outcome related to the NC (This may be the same for several lead to notice that light is reflected from Place of this lesson/activity within the same for the NC (This may be seen as a same for several leads to the NC (This may be seen as a same for several leads to the NC (This may be seen as a same for several leads to the NC (This may be seen as a same for several leads to the NC (This may be seen as a same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the NC (This may be the same for several leads to the	essons) some surfaces.	son in a series about	light.	
Learning Objective for this lesson/a	ctivity (with context if appropriate)	: Success Crite	eria:	
Identify reflectiveness of different materials.		Investigate t -Work as a g -Record find	roup to make a decision about reflec	tiveness
		-Explain reas	ons for decisions and groupings	
Key vocabulary: (consider how you v	will introduce this, display this and a	Resources: (Include health and safety issues, out	doors if appropriate)
its use) Light, dark, natural, artificial, source,	, blocked, bright, smooth, transpare		materials – (black paper, white paper ctor strip), torch, light sensor/data lo	r, yellow paper, mirror, foil, glass, plastic, ogger, ruler
opaque, translucent		Torches		
Potential misconceptions/Errors		Pupils' prior	learning for this lesson	
We can still see even where there is	an absence of any light			and began to talk about the amount of children spoke about mirrors, reflecting
Eyes 'get used to' the dark		light.	notice by different materials. Joine	omaren spoke about mirrors, reflecting
Moon and reflective surfaces are ligh	nt sources			

Who will you focus your assessment on and how will this be done?

Recording errors

A and B: what is light? Can they explain what the difference is between light and dark?

EXS children: Can children identify how the surface influences the amount of light reflected. Same material, different surfaces/shapes. Can they provide examples of this?

Lesson/activit	Lesson/activity outline - Think about the inclusivity of your lesson and how you are meeting the needs of all pupils.				
Learning episode & timeline (for example, retrieval, exposition, repetition, practice)	What are the children learning? (What do you want children to do, know, or understand? What are they learning, not just doing?) Consider challenge for all which may include adaptations for those working towards to those working mastery (consider scaffolds and resources/equipment) Will the children be working independently, in pairs, groups?	What is your role during the lesson? Key teaching points Formative assessment including key questions How will you manage transitions between the different elements of your lesson which may include children moving around the room?	What adaptations are needed? Do you have an additional adult? How will you ensure all pupils are supported in their learning?	Overall Assessment of Learning How do you know that the children have learnt this, so that you can go onto the next teaching point? What are you looking to see/ hear? How do you assess this learning? What is your hinge question?	
9.00 RETRIEVAL of PRIOR LEARNING	Children are sitting on the carpet with TP and are recalling what they remember about light. Ask children to TTYP before taking responses Some children will draw lines and be able to do this.	Introduce learning objective. Q: What is light? What is darkness? Can you see the sun at night time? Yes/No? Assessment - Focus on A and B, and ask to explain to check their understanding. Could the children see when there was no light? What happens when light is emitted from a light source? Where does it go? Chn draw their ideas on their whiteboards	Mrs B is sitting with A and B and supporting TP activity. Referring to WW and key vocabulary. Mrs B records children's ideas on whiteboard. Mrs B checks on understanding of those who I cannot see.		
9.05 EXPOSITION and CHECKING FOR UNDERSTANDING	Children on carpet and have whiteboards to draw ideas- AfL	Watch: https://www.bbc.co.uk/bitesize/topics/zbssgk7/articles/zqdxb82 What did you notice about the mirror and black wall? Explain and draw on IWB: • When light from an object is reflected by a surface, it changes direction. • It bounces off the surface at the same angle as it hits it. • Smooth, shiny surfaces such as mirrors and polished metals reflect light well. • Dull and dark surfaces such as dark fabrics do not reflect light well. Qs:			

		What do you know about reflection?What is reflection?	
		Can you think of any reflective surfaces?	
		What and where?	
9.15		Use a range of mirrors and reflective surfaces as prompts, if	
EXPOSITION		necessary. Can chn make links to real-life situations?	
		Explain we are going to think about reflective and non-reflective	
		surfaces.	
	Children may look at the	Show children a range of different materials in a gratnell tray. Explain that they will be looking at different materials and	Mrs B helps to model activity
	,	thinking about what happens when they shine light on them.	,
	materials and decide if they	Model how to use the torches	
	are reflective or not.	With Mrs W, model how to shine light on each material- what do they notice?	
		Organise children into groups of 4	Mrs B helps to model
		They need to work as a group and each have a go at holding the	how to work in groups.
		torch and selecting materials. Model with Mrs W.	
		Give each group one material and a torch.	
		Ask them to investigate the material and then to share ideas	
	TP: think, pair, share. Give	Gather feedback and record on ww.	
0.20	feedback about findings	Give the groups a range of different materials and a torch. E.g.	
9.20	reedback about findings	tin foil, paper, wood, metal, fabric.	Mars D. to all stalls at a
PRACTICE		Explain that they will be working in these groups and will need	Mrs B to distribute
		to explain/record/note what happens when they shine the torch	gratnell trays while I transition children to
		on the surface.	tables.
		Transition children to tables, one group at a time	tables.
		Give them time to explore the reflectiveness of each material.	

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		Bring back as a class after a few minutes and establish that they		
	Children on tables in 4s and	all now have some findings.		
	they share findings – could	'1, 2, 3 eyes on me'		
9.28	some be shown on	While seated at tables, ask:		
EXPOSITION	visualiser?	What did they notice? What is being 'recorded'?		
EXI OSITION		How can we RECORD these findings?		
		Why do we need to record results in science? What if scientists	Mrs B distributes	
		didn't record anything?	sheets of A4 paper and	
		What could we do?	rulers to each group.	
		Explain we need to record findings in a table.		
9.35	Children offer suggestions	Model drawing a table on visualiser (use A4 sheet – these will be		
PRACTICE	for ways to record.	kept in floor book) and take responses/findings from each group.	Mrs B goes to support	
		Use a ruler and agree on titles for rows and columns.	A and B. Draws chart	
		Clarify expectations.	or provides copied	
			record chart.	
	Children continue to work	Send children off again to complete activity in groups and move	Acts as scribe.	
	in groups and record their	between groups.		
	findings on a sheet of A4	Check for understanding and listen to ideas and vocabulary		
	paper, as a group.	being used.		
		Give children a 5-minute notice period and remind of SC and		
		expectations.		

9.50		Ash shilders to estimate the second s		
RETRIEVAL		Ask children to return all equipment to trays and leave in centre		
KEIKIEVAL		of tables		
	Children move back to the	Transition back to carpet, with results on sheets. One group at a		
	carpet with results charts	time	Mrs B collects charts -	
			to be stuck in floor	
		Plenary	books after each group	
	Children on carpet with	What did the children notice?	feeds back.	
	their results.	Ask children to explain what happens when they shine the torch	reeds sack	
		on the surface.		
	TTYP.	off the surface.		
		Could the recording be done another way? Take suggestions		
	TPs share findings with the			
	class.	Show:		
		https://explorify.uk/en/activities/what-if/we-didnt-have-mirrors		
		Discuss and share ideas.		
		When do we use mirrors in everyday life?		
		Make vocabulary expectations clear- sentence stems:		
		I know a surface is reflective because		
		All reflective surfaces		
Lesson Evalua	ation			L
What did the chi	ldren learn?			
How do you know	w.?			
Tiow do you know				
Which teaching s	trategies worked most			
effectively in this				
errectively in this	lesson			
Which teaching s	trategies were less effective			
in this lesson/activity? Why do you think this				
was the case?				

What did you learn about your own practice	
and developmental needs?	
What are the implications for you? What will	
you do to turn this into action during the	
next lesson/activity?	