Springdale First School

Imagine, Believe, Achieve

Year 1 Design and Technology -





Enquiry Question – What is a structure?	Enquiry Question – How are these stuctures stable?	Enquiry Question – How can I join materials toegther?
Concept - Enquire	Concept - design	Concept – make
 Children will know what a freestanding structure is. R&R - What sort of things have you built that stand up alone? Explore different freestanding structures through visuals - discuss with the children what freestanding means and how they can identify a freestanding structure. Focus on different chairs and look at how they are freestanding. Task: Practise - On tables chn can explore different structures (toys/models/games) - which ones stand alone? Which ones fall over easily? Apply - Chn to sort objects into freestanding and not freestanding. Deepen - explain why objects are/are not freestanding. 	Children will know what makes a freestanding structure stable. R&R - What is a freestanding structure? How do you know? Discuss sorting last lesson and how chn know that a structure is freestanding. Focus on chairs - link to Goldilocks? Task: Explore ways in which a structure can be made more stable/sturdy. Practise - Model a falling object - adding a butress/platform under to support it. Introduce vocab sturdy/stable/butress/wider base. Apply - Through junk modelling, chn to explore making objects more stable by adding supports in. Deepen - chn to explain why they become stable.	Children will know different joining techniques and how they will support their structure. R&R - What can be used to make a freestanding structure more sturdy? Refer back to junk modelling in rec - what sort of things could we use to join materials toegther?

Enquiry Question – What will my freestanding structure look like?	Design a freestanding structure.	Enquiry Question – Was your product fit for purpose?
Concept – design	Concept – NANY make	Concept – evaluate
Children will know how to design their product using a design criteria.	Children will follow their design to make their product using the tools/materials/techniques selected.	Children will evauate their product against the design crieria.
R&R – What is a free standing structire and how does it stand up?	Give chn time to look at their design and gather the correct materials/tools/joining materials rady to make their chair.	R&R – Give me 5! Tell me five things you know about freestanding structures.
Talk to the children about what there structure must have/be in order be freestandng. Look back at different chairs.	Apply - Following their design, chn to make their	Chn to test out their product – is it fit for purpose?
Ensure joining techniques and materials are included.	product. Discuss and bubble up when questioning the chn about the techniques used and why.	Practise – test out product – is it fit for purpose? How do you know?
Practise - Using a design criteria (flip) model drawing & labelling a design of their chair.		Apply – Evalute product against design criteria – look at a checklist toegther then chn can fill it out accornding to their product.
Back		Talk about what went well and what might be improved.
Foce		Deepen – Explain what went well and why and then what might be improved and why.
Apply – chn to design their own freestanding chair.		
Who will your product be for?		