

Stable Structures : DT : Year 1/2

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To explore the features of stable structures, including toy car garages.	Children will explore and compare existing toy car garage structures. They will look at the materials, features and think about their purpose as they begin to think about their own designs.	<ul style="list-style-type: none"> Can children evaluate existing products? Can children communicate their ideas through talking? Can children compare existing products? 	<ul style="list-style-type: none"> Slides Question Cards 1A/1B/1C Worksheet 1A A range of car garages Picture Cards 1A/1B/1C/1D (FSD...? activity only) Checklist 1A/1B (FSD...? activity only)
Lesson 2	To design and plan a stable structure.	Children will examine the different parts of toy garage structures and think about their features and purposes. Then they will compare a picture of a product to a plan and begin to think about their own design ideas as they modify existing plans.	<ul style="list-style-type: none"> Can children design a functional product? Can children communicate their ideas through talking and drawing? Can children think about the purpose of the end product? 	<ul style="list-style-type: none"> Slides Worksheet 2A/2B/2C Design Ideas 2A Criteria Sheet 2A (FSD...? activity only) Plans 2A (FSD...? activity only) Paper mock-up of design (Plenary only)
Lesson 3	To explore a range of materials and make decisions based on the end product.	Children will explore the properties of different materials and think about which ones are suitable for each section of their stable structure. They will think about strength, stability, malleability and other features in this exploration lesson.	<ul style="list-style-type: none"> Can children investigate the properties and characteristics of materials? Can children explore how materials can be made stronger and stiffer? Can children select appropriate materials based on the purpose of their product? 	<ul style="list-style-type: none"> Slides Worksheet 3A/3B/3C Worksheet 3D (FSD...? activity only) Teacher Notes 3A (FSD...? activity only) Workstation Cards 3A (FSD...? activity only)
Lesson 4	To follow a design plan and make a product.	Children will follow their own design plans and use the helpful resources provided to build their own stable structures. They will develop their fine motor skills, concentration and perseverance as they draw, cut and stick with precision.	<ul style="list-style-type: none"> Can children follow a design plan? Can children manipulate materials? Can children use tools accurately? 	<ul style="list-style-type: none"> Slides Plans from lesson 2 Instruction Cards 4A Design Plan 4A (FSD...? activity only)
Lesson 5	To evaluate products.	Children will look at different criteria and assess whether their structures are successful. They will think about features including the stability and firmness of their structure as well as features specific to their own design criteria.	<ul style="list-style-type: none"> Can children make purposeful functional products? Can children evaluate their products? Can children use technical language when talking about their product? 	<ul style="list-style-type: none"> Slides Checklist 5A/5B/5C Statement Cards 5A (FSD...? activity only)