



All Saints CE Primary School and Nursery

Medium Term Planning



Class teacher: Lisa Edwards Year group: 6 Term: Summer 1 Subject: 3D modeling using Tinkercad

BRITISH VALUES

Lesson	SKILLS Based L.G.	Brief outline of lesson content (or where this can be found/unit found in, if for example it is a published scheme such as Science)	Key Vocabulary covered
4/6	L.G. I can apply my online safety knowledge to my online activities Tolerance, Respect	Twinkl Online Safety lesson 5 SMART (Safe, Meeting, Accepting, Reliable, Tell) and SMART scenarios	SMART, cyberbullying, attachments, email, website, secure, personal, private, acronym
2	L.G.: I can add and move 3D objects Tolerance, Respect	Twinkl 3D Modelling- Tinkercad lesson 1 Explore the Tinkercad software SEND use instruction prompts with support Tinkercad	3D, Tinkercad, modelling, workplane, viewpoint, perspective, object, duplicate
3	L.G.: I can modify 3D objects Tolerance, Respect	Twinkl 3D Modelling- Tinkercad lesson 2 Recap Tinkercad interface Skill- modifying objects: <ul style="list-style-type: none"> • two methods to resize- which is most effective and why? • Recolouring • Rotating • Grouping and regrouping Design challenge- 3D door plaque SEND use instruction prompts with support Tinkercad	Dimension, handles, rotate, resize, axes, angle, group, ungroup, recolour
4	L.G.: I can manipulate and combine 3D objects Tolerance, Respect	Twinkl 3D Modelling- Tinkercad lesson 3 Recap quiz Tinkercad skills:	Axes, align, group, ungroup, combine

		<ul style="list-style-type: none"> Using axes in Tinkercad Raising and lowering objects Combining objects Aligning objects <p>Design challenge- creating a tower SEND use instruction prompts with support Tinkercad</p>	
5	L.G.: I can add holes to an object Tolerance, Respect	<p>Twinkl 3D Modelling- Tinkercad lesson 4 Recap- three axes used for 3D modelling Skills:</p> <ul style="list-style-type: none"> Adding a hole Adding a placeholder Revisit interior and exterior walls/surfaces <p>Design challenge- design a house SEND- one-roomed house with limited features added Tinkercad</p>	Placeholder, hole, surface, interior, exterior
6	L.G.: I can make a 2D design of a 3D model Tolerance, Respect	<p>Twinkl 3D Modelling- Tinkercad lesson 5 Recap- previous vocabulary Skills:</p> <ul style="list-style-type: none"> Features of a game character 2D design to 3D design Creatures and characters <p>Design challenge- design a 2D chracater for a game Tinkercad</p>	2D, 3D, video game character
7	L.G.: I can make a 2D design of a 3D model Tolerance, Respect	<p>Twinkl 3D Modelling- Tinkercad Recap previous skills Skills:</p> <ul style="list-style-type: none"> Scribble tool <p>Design challenge- create a 3D model of the game character form previous lesson Tinkercad</p>	Scribble, custom shape, evaluate, design criteria