

Leintwardine Endowed CE Primary School Learning Journey Itinerary

'Letting Our Light Shine'

SUBJECT : Computing YEAR : B TERM : Summer 1 YEAR GROUPS : 5/6

Key Question: Can you design, refine and print a 3D model to fit a specific criteria?

Previous Knowledge – We would expect children to already be able to:

END OF UNIT OBJECTIVES

<p>Some children will not yet have met what is expected and will show that they are emerging because they can:</p>	<p>Most children will show that they have reached the expected level because they can:</p>	<p>Some children will have gone beyond the expected level and will show that they are exceeding because they can:</p>
<ul style="list-style-type: none"> - Know what the 2Design and Make tool is for. - Name a viewpoint in 2Design and make it whilst designing a building. - Adapt one of the vehicle models by moving the points to alter the shape. - Explore how to edit any 3D model. - Refine one of their designs to prepare it for printing with support. - Print their design as a 2D net and then created a 3D model with support. - Explore the use of 3D printing. 	<ul style="list-style-type: none"> - Explain what the 2Design and Make tool is for. - Explore the different viewpoints in 2Design and make whilst designing a building. - Adapt one of the vehicle models by moving the points to alter the shape of the vehicle while still maintaining its form. - Explore how to edit the polygon 3D models to design a 3D model for a purpose. - Refine one of their designs to prepare it for printing. - Print their design as a 2D net and then create a 3D model. - Explore the possibilities of 3D printing. 	<ul style="list-style-type: none"> - Explain what the 2Design and Make tool is for and why the positives of using it. - Explore the different viewpoints in 2Design and make whilst designing a building and discuss what you have done. - Adapt two of the vehicle models by moving the points to alter the shape of the vehicle while still maintaining its form. - Explore how to edit the polygon 3D models to design a 3D model and present the purposes of your model. - Refine one of their designs to prepare it for printing. - Print their design as a 2D net and then create a 3D model – writing instructions for what you have just done. - Explore and present the possibilities of 3D printing.

ASSESSMENT OPPORTUNITIES

Saving to the Purple mash server and look at their final outcome.

Through questioning, asking and answering – regular sweeps of the classroom to look at their programming.

ENRICHMENT OPPORTUNITIES

Helping children to remember more through sticky learning and a vocabulary recap at the beginning of the lesson.

SUBJECT SPECIFIC VOCABULARY

Designing, undo, review, purpose, template, fix, model, features, document, generated, refine, redo, dimensional, printing, packaging, adapted, job, viewpoints, possibilities, edit, shapes, forms, exploring, model

CROSS-CURRICULAR LINKS

Links that we can make to help children make sense of what we want them to know and be able to do.

DT- planning, designing and reviewing different creations.