

National Curriculum Computing:			
Step	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
NC	Digital skills (3D modelling) - Leopoly https:// makers.leopoly.com/ <ul style="list-style-type: none"> Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school. 	CAD - Tinkercad https:// www.tinkercad.com/ <ul style="list-style-type: none"> Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. 	CAD - Tinkercad https:// www.tinkercad.com/ <ul style="list-style-type: none"> Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.
	Can you create a digital sculpture?	Can you use CAD tools to sculpt?	
1	Making sculptural birds in Leopoly https://makers.leopoly.com/en/browse/kids-n-fun?page=1&limit=32 <ul style="list-style-type: none"> Retrieve the 'little bird' sculpture from 'Browse Library - Kids N Fun - page 1 - Madison Dee, Little Bird' Adjust the view of the bird (front, left, top, bottom etc.) Change sculpting tools to pull, push, erase, smooth, flatten, pinch and sculpt. Adjust tool size and strength. Use the symmetry tool. Know how to use the undo, redo and restart tools. 	Tinkercad - explore the workspace and tools https://www.tinkercad.com/learn/project-gallery;collectionId=OPC41AJJKIKDWDV <ul style="list-style-type: none"> Become familiar with the Tinkercad workspace and tools by completing the 'Starter' tutorials: <ul style="list-style-type: none"> 'Place it!' 'View it!' 'Move it!' 'Rotate It!' 'Size it up!' 'Group it!' 'Copy it!' 'Duplicate it!' 'Hide it!' 'Align it!' 	
2	Making bears in Leopoly https://makers.leopoly.com/create?id=6208 <ul style="list-style-type: none"> Open 'Create your teddy bear' in the Leopoly library. Use the paint tool. Adjust paint tool size and strength. Save finished bear. 	Design story dice https://www.tinkercad.com/lessonplans/design-story-starter-dice <ul style="list-style-type: none"> create a 2-D model for 3-D computer aided design (story dice) 	Create an avatar https://www.tinkercad.com/lessonplans/create-your-own-avatar <ul style="list-style-type: none"> Use "orthographic projection" to break down a design and study it (drawing an object straight on from each of its sides: the top, front, back, left side, right side, and bottom are separate sketches).
3	Making aliens in Leopoly https://makers.leopoly.com/create?id=33509&modelMode=scratchsculpt <ul style="list-style-type: none"> Select 'start from scratch' and open 'Gaia'. Zoom in and out to add detail and gain an overview of the model. Use the pattern tool to decorate the finished alien. 	Story dice https://www.tinkercad.com/lessonplans/design-story-starter-dice <ul style="list-style-type: none"> Create a 3-D model with Tinkercad Adjust the size of the words to fit onto each side of the cube. Change the text to a "hole." "Group" all objects together. Save to a format compatible with your 3D printer 	https://www.tinkercad.com/lessonplans/create-your-own-avatar <ul style="list-style-type: none"> Create a 2-D representation of a character. Measure the 2-D design.

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4	<p>Explore Barbara Hepworth's image of 'Mother and Child'. https://makers.leopoly.com/create?id=33509&modelMode=scratchsculpt</p> <ul style="list-style-type: none"> Apply 3-D modelling skills to sculpt 'Mother and Child'. 	<p>https://lessonplan.prd.tinkercad.com/assets/2020-07-27T23/974a116a.pdf</p> <ul style="list-style-type: none"> Use your story dice to plan a story. Evaluate their effectiveness. 	<p>https://www.tinkercad.com/lessonplans/create-your-own-avatar</p> <ul style="list-style-type: none"> Build 3-D shapes in Tinkercad. Create a 3-D representation of a character using Tinkercad. Share the finished avatar.