Design and Technology L/UKS2

NC. links. **Design and Technology** Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups**.** Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.

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| L.O: I can work collaboratively to generate a 3-D model of my sustainable city.  Outcomes. Create a 3D building for their city. Draw landmarks and features e.g. rivers around their 3D models. Recognise the essential things that are needed for a city and its inhabitants to survive. Create a model of a more complex building e.g. wind turbine. Potentially children can follow a design brief to create an accurate model. | | | | | | |
| **Whole Class Teaching Activity** | | | **Differentiated Group / Talking Partner / Independent Activity** | | | |
| \*Warm-up. Ask chn to gather their notes and information from last lesson. Explain to the chn that they are creating 3-D models from their 2-D sketches. Ask chn to discuss, in their assigned teams/pairs how they will best work out how to plan their design. Allow time for this lesson.  \*PPT. Use the PPT to discuss considerations. This can be left on the board (or printed for LA)  \*Activity. \*Whole class This session should be child-led and a culmination of all the work previously done on Sustainable Cities. They should be using junk modelling materials to create 3-D cities taking into account the considerations discussed. It may be necessary to model certain D.T skills to the chn. | | | LA  Mxd ability groups.  Support D.T skills where necessary. | | MA  Mxd ability groups.  Support D.T skills where necessary. | HA  Mxd ability groups.  Support D.T skills where necessary. |
| Plenary: Whole class discussion. Ask chn to visit each other’s cities, with tours if necessary. | | | |
| **AfL** | **Children exceeding WALT:** | **Children not achieving WALT:** | | **Resources:**  PPT  Junk modelling materials.  A2 paper for cities to go on. | | |