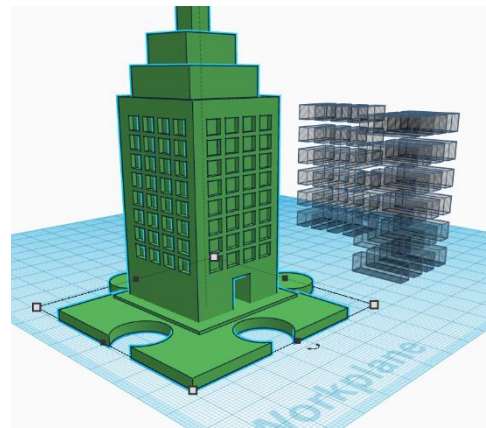
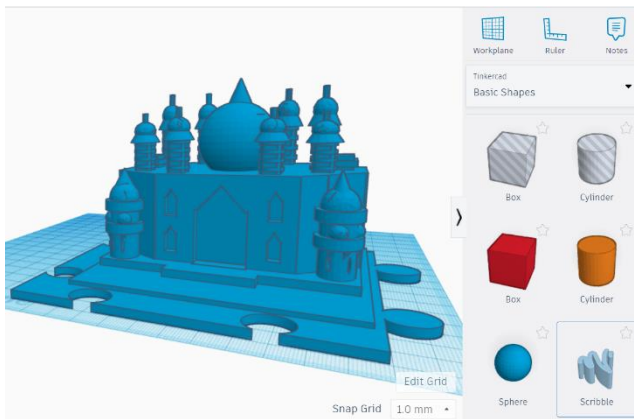


# ICT – 3D MODELS

Grade 5/6 students have been using cross curricular STEM skills to learn how to create 3D models using TinkerCAD. They have studied different kinds of buildings and have looked at city sky lines. They recognise that some features of buildings are functional, and that some are more visually artistic. All students were challenged to create a city feature, and submissions ranged from sky scrapers and homes, to stadiums and parks.

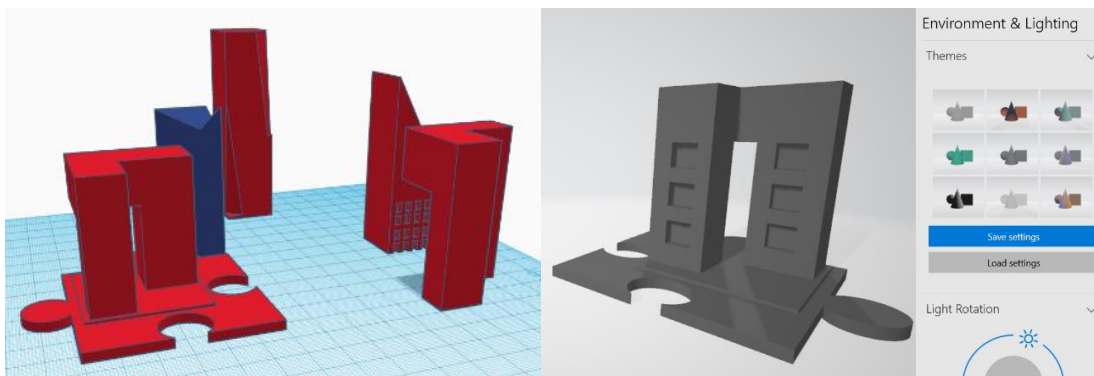


Students have learned how to use simple CAD (Computer Aided Design) tools to design their buildings. We have discussed how using the features of modern technology like TinkerCAD can help to speed up, or increase accuracy in, designs.



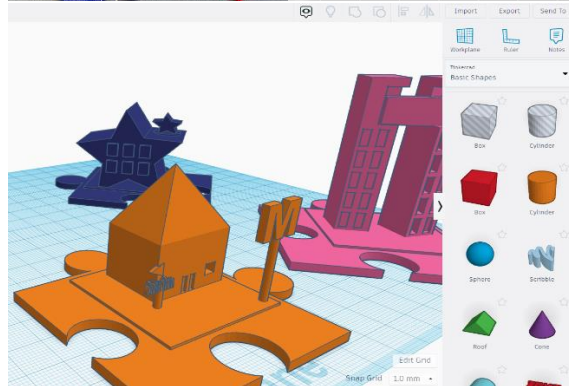
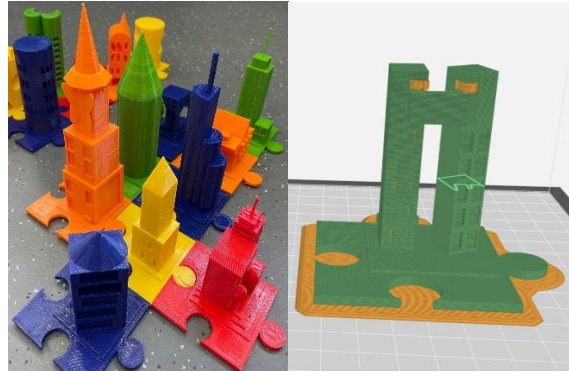
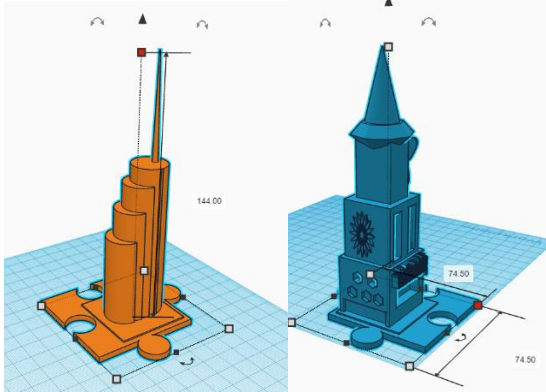
Students begin by dragging shapes from a menu onto the workplane and combine, or cut away different parts in order to create a model.

They experimented by making more complicated shapes and cutting sections in order to create interesting architectural designs. Students had to fit their buildings onto a standard “block”, which then click together when printed. When finished, some even experimented with the lighting of their models.



Students have seen first-hand, the effects and limitations of 3D printing and have each had the opportunity to have their model printed if submitted. On average, a model shown took about 2hrs to print, with some super detailed models taking up to 9hrs 30mins!

To check out some of the design process and completed models, turn over the page.



TinkerCAD is a free resource that can be found at [www.TinkerCAD.com](http://www.TinkerCAD.com) – It is suitable for Grade 3-6, and through high school. Why not have a go at home? Get started with Mr P's TinkerCAD guide.



Grade 3/4 YouTube Guide



Grade 5/6 YouTube Guide

MODELS WILL BE ON DISPLAY IN THE OFFICE