

Design and Technology Week

Maths - Ratios / Creating Solution to Design Brief

Learning intentions	Students will practice use of ratios and their use in developing a creative solution to a design brief.
Engage	Students to watch Minecraft Trailer https://www.youtube.com/watch?v=MmB9b5njVbA
New information	Students will be given a design booklet containing a design brief and templates to help them create their solution. Design a large and secure fortress for MINECRAFT world using limited supply of materials.
Activity	<ol style="list-style-type: none">1. Students to read design brief, clarify understanding with teacher.2. Students are given rules about ratios and cart capacity in relation to the materials available3. Students plan how many materials they need and document their quantities in each available cart. (Can be done in tandem with following tasks)4. Students plane basic footprint of fortress (outer wall and inner structure)5. Student draw 3D fortress, visually indicating which materials are placed where. (May need rulers, pens/pencil and textas/coloured pencils.)
Review	Students to share designs with students at the same table and explain their concept. Each table to vote for the best design. Share these with class. Booklets to be returned to teacher and placed in Peter Murphy's pigeon hole. Thanks!

Collect work and return to staff lounge – Thanks!