

Technology | Learning Overview

Design Technologies Classroom Design		Assessment	
<p>Australian Curriculum Links</p> <p>Design and Technologies Explore the characteristics and properties of materials and components that are used to produce designed solutions (ACTDEK004)</p> <p>Explore needs or opportunities for designing and the technologies needed to realise designed solutions (ACTDEP005)</p> <p>Visualise, generate, develop and communicate design ideas through describing, drawing and modeling (ACTDEP006)</p> <p>Cross Curriculum and General Capabilities</p> <ul style="list-style-type: none"> History/Geography: My School Critical and creative thinking Sustainability <p>Geography: The ways that space within places, such as classroom or backyard, can be rearranged to suit different activities or purposes (ACHGK008)</p>	<p>Lesson 1</p> <p>Systems in my Classroom: DRAFT DESIGN <i>Learning Objective:</i> Students explore and analyse systems within the classroom (focusing on the classroom layout being a designed system). Students take into consideration classroom design to re-design the classroom space.</p> <p>Resources:</p> <ul style="list-style-type: none"> 30x A4 paper Classroom Floor Plan Classroom items (printout) Assessment Rubric 	<p>Learning sequence <i>Introduction:</i> Introduce systems: doors, boxes with lids, chairs... look around the room. A system is a set of things that work together to make a whole. Ask students to contribute to conversation. Discuss the role and decisions that are part of an inventors and designers career. Highlight objects that are re-used year after year to help look after our planet and resources (sustainability)</p> <p><i>Body:</i> Our classroom is a functioning system. The design of our classroom has been carefully considered. Consider:</p> <ul style="list-style-type: none"> Functionality and safety Can everyone see the board? Can we walk around without being hurt? Etc. <p>In this lesson students will create their own DRAFT classroom layout, considering the above. Students use floor plan to re-arrange and re-design the current layout.</p> <p><i>Conclusion:</i> Ask students to share their work. Were there any implications?</p>	<p>Assessment: Formative An assessment rubric has been created for the final piece. However, provide individual formative feedback for students on their draft design. Use questioning during the lesson to guide students to think about the aesthetic, layout, design features and the functionality of their layout.</p> <p>Give a grade (using rubric) for the draft layout.</p>
	<p>Lesson 2</p> <p>Systems in my Classroom: FINAL DESIGN <i>Learning Objective:</i> Students explore and analyse systems within the classroom (focusing on the classroom layout being a designed system). Students take into consideration classroom design to re-design the classroom space.</p> <p>Resources:</p> <ul style="list-style-type: none"> Classroom Floor Plan Classroom items (printout) Assessment Rubric 	<p>Learning sequence <i>Introduction:</i> Introduce systems: Revise previous learning. (Refer to formative feedback given after draft layout design). What worked, and what didn't in our classroom designs? Discuss issues. Discuss how these issues can be resolved in the final draft. Explain to students that these will be assessed.</p> <p><i>Body:</i> In this lesson students will create their own classroom layout, considering the above. Students use floor plan to re-arrange and re-design the current layout.</p> <p><i>Conclusion:</i> Ask students to share their work. Why have they chosen a particular spot for a particular item? Try to expose their thinking to see if it relates to opening discussion.</p>	<p>Assessment: Summative This task will be assessed for reporting purposes using the marking rubric: Technology - Classroom Design</p>