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| TECHNOLOGY |  |  |
| By the end of **Year 3** | By the end of **Year 5** | By the end of **Year 7** | By the end of **Year** 9 |
| Students are able to:• identify the purpose for design ideas• generate simple ideas for designs• communicate major features of their designs, using 2D or 3D visual representations and words• select resources, simple techniques and tools to make products• plan and sequence main steps in production procedures• make products by following production procedures to manipulate and process resources• follow guidelines to apply safe practices• evaluate products and processes by identifying what worked well, what did not and ways to improve• reflect on the uses of technology and describe the impact in everyday situations• reflect on learning to identify new understandings. | Students are able to:• identify and analyse the purpose and context for design ideas• generate design ideas that match requirements• communicate the details of their designs using 2D or 3D visual representations• select resources, techniques and tools to make products• plan production procedures by identifying and sequencing steps• make products to match design ideas by manipulating and processing resources• identify and apply safe practices• evaluate products and processes to identify strengths, limitations, effectiveness and improvements• reflect on and identify the impacts of products and processes on people and their communities• reflect on learning to identify new understandings and future applications. | Students are able to:• investigate and analyse the purpose, context, specifications and constraints for design ideas• generate and evaluate design ideas and determine suitability based on purpose, specifications and constraints• communicate the details of designs showing relative proportion, using labelled drawings, models and/or plans• select resources, techniques and tools to make products that meet specifications• plan and manage production procedures and modify as necessary• make products to meet specifications by manipulating and processing resources• identify risks and justify and apply safe practices• evaluate the suitability of products and processes for the purpose and context, and recommend improvements• reflect on and identify the impacts of products and processes on people, their communities and environments• reflect on learning, apply new understandings and identify future applications. | Students are able to:• investigate and analyse specifications, standards and constraints in the development of design ideas• consult, negotiate and apply ethical principles and cultural protocols to investigate, design and make products• generate and evaluate design ideas and communicate research, design options, budget and timelines in design proposals• select resources, techniques and tools to make products that meet detailed specifications• plan, manage and refine production procedures for efficiency• make products to meet detailed specifications by manipulating or processing resources• identify, apply and justify workplace health and safety practices• evaluate the suitability of products and processes against criteria and recommend improvements• reflect on and analyse the impacts of products and processes on people, their communities and environments• reflect on learning, apply new understandings and justify future applications. |