|  |  |  |  |
| --- | --- | --- | --- |
| 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. |