Outcome Development and Evaluation

LEVEL Describe potential outcomes, through drawing, Identify potential outcomes that are in keeping with Produce an outcome in keeping with identified 1 ← → models and/or verbally. the attributes, and selects one to produce. attributes. Describe potential outcomes, Evaluate potential outcomes in Produce an outcome in keeping Evaluate the final outcome in terms 2 through drawing, models and/or terms of identified attributes to of how successfully it addresses with the brief. verbally select the outcome to produce. the brief. 3 Describe design ideas (either Evaluate design ideas in terms Select materials/components, Produce an outcome that Evaluate the final outcome \rightarrow through drawing, models of key attributes to develop based on their performance addresses the brief. against the key attributes to and/or verbally) for potential a conceptual design for the properties, for use in the determine how well it met the production of the outcome. outcomes. outcome. need or opportunity. Describe design ideas Undertake functional modelling Test the key performance properties of Produce Evaluate the fitness 4 \leftrightarrow \leftrightarrow → (either through drawing, to develop design ideas into materials/components to select those and trial a for purpose of the final models and/or verbally) or a conceptual design that appropriate for use in the production of outcome against the key prototype of potential outcomes. addresses the key attributes. a feasible outcome. the outcome. attributes. 5 Evaluate suitability of materials/ Evaluate the fitness Generate design ideas \leftrightarrow Undertake functional Produce \leftrightarrow ⇒ \leftrightarrow that are informed by modelling to develop design components, based on their performance and trial a for purpose of the final research and analysis of properties, to select those appropriate outcome against the ideas into a conceptual prototype of existing outcomes. design that addresses the for use in the production of a feasible the outcome. specifications. specifications. outcome \mathbf{J} \mathbf{J} Generate Evaluate design Undertake Evaluate the Evaluate suitability Produce and Use stakeholder \Leftrightarrow \Leftrightarrow \Leftrightarrow 6 \leftrightarrow \leftrightarrow \leftrightarrow design ideas ideas in terms functional conceptual of materials/ trial a prototype feedback to support of their ability modelling to and justify key that are design against components, based of the outcome to support the on their performance design decisions and informed by refine design the specifications to evaluate its research and development ideas and to determine properties, to select fitness for purpose evaluations of fitness the critical of a conceptual enhance the proposed those appropriate for and identify any for purpose. their ability to analysis design for a outcomes use in the production changes that of a feasible of existing feasible outcome. address the potential fitness would enhance specifications. the outcome. outcomes for purpose. outcome $\mathbf{1}$ Use stakeholder Generate design Develop design Undertake functional modelling to evaluate Evaluate suitability Undertake \leftrightarrow \leftrightarrow \leftrightarrow \leftrightarrow ideas that are ideas for design ideas and develop and test a conceptual of materials/ prototyping to feedback and an informed by outcomes that design to provide evidence of the proposed components, gain specific understanding of the outcome's ability to be fit for purpose. physical and social research and are justified based on their evidence of an critical analysis as feasible performance outcomes fitness requirements of where the outcome of existing with evidence properties, to for purpose and outcomes. aained through select those use this to justify will be situated to Critically analyse evaluative practices appropriate for use any decisions to functional support and justify used when functional modelling to in the production of refine, modifv modelling. key design decisions inform own functional modelling. a feasible outcome. and/or accept the and evaluations of outcome as final. fitness for purpose. $\mathbf{1}$ Develop design Undertake evaluation Evaluate suitability \leftrightarrow Use stakeholder Generate Undertake Undertake \leftrightarrow \leftrightarrow 8 design ideas ideas for feasible of design ideas functional of materials/ prototyping to feedback and an understanding of the informed by critical modelling of that are outcomes that components, based gain specific are justified with analysis of evaluative the conceptual on their performance evidence of an physical and social informed by research evidence gained practices to support design to provide properties, to select outcomes fitness requirements of and critical through functional the development of evidence that those appropriate for for purpose and where the outcome use in the production analysis modelling that a conceptual design the proposed use this to justify will be situated to of existing serves to gather for an outcome outcome has the of a feasible outcome any decisions to support and justify outcomes evidence from that optimises potential to be fit that optimises refine, modify an evaluation multiple stakeholders resources and for purpose. resources and and/ or accept of the outcome and knowledge and test designs takes into account takes into account the outcome as and development of material ideas from a range maintenance and maintenance and final. practices as fit for innovations of perspectives. disposal implications. € disposal implications purpose.

INFORMS WITHIN A LEVEL

SAME IDEA; NO PROGRESSION

PROGRESSION TO FOLLOWING LEVEL/S

This diagram is one of eight showing how learning in the components of the technology curriculum, assessed in relation to the indicators, progresses within and across curriculum levels. Copyright © Ministry of Education 2010.