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| Achievement Standards Technologies - A Course Year 11 | | | | | |
|  | A student who achieves an **A** grade typically | A student who achieves a **B** grade typically | A student who achieves a **C** grade typically | A student who achieves a **D** grade typically | A student who achieves an **E** grade typically |
| Knowledge and understanding | * analyses the design process and explains decision making | * explains the design process and describes decision making | * describes the design process with reference to decision making | * identifies major features of the design process with little reference to decision making | * identifies some features of the design process |
| * analyses technology concepts and principles and explains the properties of materials or data or systems to address a need, problem or challenge | * explains technology concepts and principles and describes the properties of materials or data or systems to address a need, problem or challenge | * describes technology concepts and principles with some reference to properties of materials or data or systems to address a need, problem or challenge | * identifies major technology concepts and principles with some reference to properties of materials or data or systems to address a need, problem or challenge | * identifies few technology concepts and principles with minimal reference to properties of materials or data or systems to address a need, problem or challenge |
| * analyses technologies, explains ethical and sustainable application | * explains technologies, describes ethical and sustainable application | * describes technologies with some reference to ethical and sustainable application | * identifies major features of technologies with little reference to ethical and sustainable application | * identifies some features of technologies with no reference to ethical and sustainable application |
| * thinks critically, drawing on data and information to solve complex problems and analyses opportunities for application of technology | * thinks critically, drawing on data and information to solve problems and explains opportunities for application of technology | * draws on data and information to solve problems and describes opportunities for application of technology | * identifies some opportunities for application of technology with limited use of information and data | * identifies some opportunities for application of technology with little evidence of use of information and data |
| Skills | * applies technology concepts, strategies and methodologies with control and precision demonstrating understanding of the historical and cultural context and its impact | * applies technology concepts, strategies and methodologies with control demonstrating understanding of the historical and cultural context and its impact | * applies technology concepts, strategies and methodologies with some control demonstrating understanding of context and its impact | * applies technology concepts, strategies and methodologies with minimal control demonstrating understanding of its impact | * applies technology concepts, strategies and methodologies with limited control demonstrating little evidence of understanding its impact |
| * creates innovative and high-quality design solutions/products using techniques and approaches and justifies ideas coherently | * creates innovative and high-quality design solutions/products using techniques and approaches and justifies ideas coherently | * creates design solutions/products using techniques and approaches and explains ideas | * creates design solutions/products using some techniques and approaches and describes ideas | * creates design solutions/products using some techniques and approaches and description of ideas |
| * critically analyses potential prototypes and solutions evaluating their appropriateness and effectiveness via iterative improvement and review | * analyses potential prototypes and solutions evaluating their appropriateness and effectiveness via iterative improvement and review | * explains potential prototypes and solutions evaluating their appropriateness and effectiveness via iterative improvement and review | * describes analyses potential prototypes and solutions evaluating their appropriateness and effectiveness via iterative improvement and review | * identifies potential prototypes and solutions with little or no reference to their appropriateness and effectiveness via iterative improvement and review |
| * communicates complex ideas and insights effectively in a range of mediums and justifies ideas coherently using appropriate evidence, metalanguage and accurate referencing | * communicates ideas effectively in a range of mediums and justifies ideas coherently using appropriate evidence, metalanguage and referencing | * communicates ideas appropriately in mediums and explains ideas coherently using appropriate evidence, metalanguage and referencing | * communicates ideas in mediums and describes ideas with some use of appropriate evidence with minimal use metalanguage and referencing | * communicates basic ideas in few mediums and describes ideas with little or no use of appropriate evidence and referencing |
| * reflects with insight on their own thinking and evaluates inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking and analyses inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking and explains inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking with some reference to planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking with little or no reference to planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively |

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| Achievement Standards Technologies - T Course Year 11 | | | | | |
|  | A student who achieves an **A** grade typically | A student who achieves a **B** grade typically | A student who achieves a **C** grade typically | A student who achieves a **D** grade typically | A student who achieves an **E** grade typically |
| Knowledge and understanding | * critically analyses the design process and evaluates constraints and implications for decision making | * analyses the design process and explains constraints and implications for decision making | * explains the design process and describes constraints and implications for decision making | * describes the design process with some reference to constraints and implications for decision making | * identifies features of the design process with little or no reference to decision making |
| * synthesises technology theories, concepts and principles and evaluates the properties of materials or data or systems to address a need, problem or challenge | * analyses technology theories, concepts and principles and explains the properties of materials or data or systems to address a need, problem or challenge | * explains technology theories, concepts and principles and describes the properties of materials or data or systems to address a need, problem or challenge | * describes technology theories, concepts and principles with some reference to properties of materials or data or systems to address a need, problem or challenge | * identifies technology theories, concepts and principles with some reference to properties of materials or data or systems to address a need, problem or challenge |
| * critically analyses technologies and evaluates ethical and sustainable application of technology | * analyses technologies and explains ethical and sustainable application of technology | * explains technologies and describes ethical and sustainable application of technology | * describes technologies with some reference to ethical and sustainable application of technology | * identifies some features of technologies with little or no reference to ethical and sustainable application of technology |
| * thinks critically and creatively, drawing on data and information to solve complex problems | * thinks critically, drawing on data and information to solve complex problems | * thinks critically, drawing on data and information to solve problems | * draws on data and information to solve problems and describes opportunities | * applying limited use of information and data |
| Skills | * applies technology concepts, strategies and methodologies with control and precision demonstrating understanding of the historical and cultural context and its impact | * applies technology concepts, strategies and methodologies with control demonstrating understanding of the historical and cultural context and its impact | * applies technology concepts, strategies and methodologies with some control demonstrating understanding of context and its impact | * applies technology concepts, strategies and methodologies with minimal control demonstrating understanding of its impact | * applies technology concepts, strategies and methodologies with limited control demonstrating little evidence of understanding its impact |
| * creates innovative and high quality design solutions/products using techniques and approaches and justifies ideas coherently | * creates innovative and quality design solutions/products using techniques and approaches and justifies ideas coherently | * creates quality design solutions/ products using techniques and approaches and justifies ideas coherently | * creates design solutions/products using some techniques and approaches and explains ideas | * plans design solutions/products using some techniques and approaches and describes ideas |
| * critically analyses potential prototypes and solutions evaluating their appropriateness and effectiveness via iterative improvement and review | * analyses potential prototypes and solutions explaining their appropriateness and effectiveness via iterative improvement and review | * explains potential prototypes and solutions describing their appropriateness and effectiveness via iterative improvement and review | * describes potential prototypes and solutions with some reference to their appropriateness and effectiveness via iterative improvement and review | * identifies potential prototypes and solutions with little or no reference to their appropriateness and effectiveness via iterative improvement and review |
| * communicates complex ideas and insights effectively in a range of mediums to a variety of audiences using appropriate evidence, metalanguage and accurate referencing | * communicates ideas effectively in a range of mediums to a variety of audiences using appropriate evidence, metalanguage and accurate referencing | * communicates ideas appropriately in a range of mediums to a variety of audiences using appropriate evidence, metalanguage and accurate referencing | * communicates ideas in mediums to a variety of audiences using some evidence, metalanguage and referencing | * communicates basic ideas in mediums to a variety of audiences using minimal evidence, metalanguage and some referencing |
| * reflects with insight on their own thinking and that of others and evaluates inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work independently and collaboratively | * reflects on their own thinking and analyses inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work independently and collaboratively | * reflects on their own thinking and explains inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work independently and collaboratively | * reflects on their own thinking with some reference to inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work independently and collaboratively | * reflects on their own thinking with little or no reference to planning, time management, use of appropriate techniques and strategies and capacity to work independently and collaboratively |

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| Achievement Standards Technologies - A Course Year 12 | | | | | |
|  | A student who achieves an **A** grade typically | A student who achieves a **B** grade typically | A student who achieves a **C** grade typically | A student who achieves a **D** grade typically | A student who achieves an **E** grade typically |
| Knowledge and understanding | * analyses the design process and explains opportunities, constraints and implications for decision making | * explains the design process and describes opportunities, constraints and implications for decision making | * describes the design process with reference to opportunities, constraints and implications for decision making | * identifies major features of the design process with little reference to opportunities, constraints and implications for decision making | * identifies some features of the design process with minimal understanding of opportunities, constraints and implications |
| * analyses technology theories, concepts and principles and explains the properties of materials or data or systems to address a need, problem or challenge | * explains technology theories, concepts and principles and describes the properties of materials or data or systems to address a need, problem or challenge | * describes technology theories, concepts and principles with some reference to properties of materials or data or systems to address a need, problem or challenge | * identifies major technology theories, concepts and principles with some reference to properties of materials or data or systems to address a need, problem or challenge | * identifies few technology theories, concepts and principles with minimal reference to properties of materials or data or systems to address a need, problem or challenge |
| * analyses technologies in a range of contexts and explains ethical and sustainable application | * explains technologies in a range of contexts and describes ethical and sustainable application | * describes technologies in a range of contexts with some reference to ethical and sustainable application | * identifies major features of technologies with little reference to ethical and sustainable application | * identifies some features of technologies with no reference to ethical and sustainable application |
| * thinks critically, drawing on data and information to solve complex problems and analyses opportunities for application of technology | * thinks critically, drawing on data and information to solve problems and explains opportunities for application of technology | * draws on data and information to solve problems and describes opportunities for application of technology | * identifies some opportunities for application of technology with limited use of information and data | * identifies some opportunities for application of technology with little evidence of use of information and data |
| Skills | * applies technology concepts, strategies and methodologies with control and precision demonstrating understanding of the historical and cultural context and its impact | * applies technology concepts, strategies and methodologies with control demonstrating understanding of the historical and cultural context and its impact | * applies technology concepts, strategies and methodologies with some control demonstrating understanding of context and its impact | * applies technology concepts, strategies and methodologies with minimal control demonstrating understanding of its impact | * applies technology concepts, strategies and methodologies with limited control demonstrating little evidence of understanding its impact |
| * creates innovative and high-quality design solutions/products using techniques and approaches and justifies ideas coherently | * creates quality design solutions/products using techniques and approaches and explains ideas coherently | * creates design solutions/products using some techniques and approaches and explains ideas | * creates design solutions/products using some techniques and approaches and describes ideas | * creates design solutions/products using some techniques and approaches and description of ideas |
| * critically analyses potential prototypes and solutions evaluating their appropriateness and effectiveness via iterative improvement and review | * analyses potential prototypes and solutions evaluating their appropriateness and effectiveness via iterative improvement and review | * explains potential prototypes and solutions evaluating their appropriateness and effectiveness via iterative improvement and review | * describes analyses potential prototypes and solutions evaluating their appropriateness and effectiveness via iterative improvement and review | * identifies potential prototypes and solutions with little or no reference to their appropriateness and effectiveness via iterative improvement and review |
| * communicates complex ideas and insights effectively in a range of mediums and justifies ideas coherently using appropriate evidence, metalanguage and accurate referencing | * communicates ideas effectively in a range of mediums and justifies ideas coherently using appropriate evidence, metalanguage and referencing | * communicates ideas appropriately in mediums and explains ideas coherently using appropriate evidence, metalanguage and referencing | * communicates ideas in mediums and describes ideas with some use of appropriate evidence with minimal use metalanguage and referencing | * communicates basic ideas in few mediums and describes ideas with little or no use of appropriate evidence and referencing |
| * reflects with insight on their own thinking and evaluates inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking and analyses inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking explains inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking with some reference to planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking with little or no reference to planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively |

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| Achievement Standards Technologies - T Course Year 12 | | | | | |
|  | A student who achieves an **A** grade typically | A student who achieves a **B** grade typically | A student who achieves a **C** grade typically | A student who achieves a **D** grade typically | A student who achieves an **E** grade typically |
| Knowledge and understanding | * critically analyses the design process and evaluates opportunities, constraints and implications for decision making | * analyses the design process and explains opportunities, constraints and implications for decision making | * explains the design process and describes opportunities, constraints and implications for decision making | * describes the design process with some reference to opportunities, constraints and implications for decision making | * identifies features of the design process with little or no reference to decision making |
| * critically analyses strategies, methodologies and procedures and evaluates their validity and reliability | * analyses strategies, methodologies and procedures and explains their validity and reliability | * explains strategies, methodologies and procedures and describes their validity and reliability | * describes strategies, methodologies and procedures with some reference to validity and reliability | * identifies some strategies, methodologies and procedures with little reference to validity and reliability |
| * synthesises technology theories, concepts and principles and evaluates the properties of material or data or systems to address a need, problem or challenge | * analyses technology theories, concepts and principles and explains the properties of materials or data or systems to address a need, problem or challenge | * explains technology theories, concepts and principles and describes the properties of materials or data or systems to address a need, problem or challenge | * describes technology theories, concepts and principles with some reference to properties of materials or data or systems to address a need, problem or challenge | * identifies technology theories, concepts and principles with some reference to properties of materials or data or systems to address a need, problem or challenge |
| * critically analyses technologies in a range of contexts and evaluates ethical and sustainable application of technology | * analyses technologies in a range of contexts and explains ethical and sustainable application of technology | * explains technologies in a range of contexts and describes ethical and sustainable application of technology | * describes technologies in a range of contexts with some reference to ethical and sustainable application of technology | * identifies some features of technologies in a range of contexts with little or no reference to ethical and sustainable application of technology |
| * thinks critically and creatively, drawing on data and information to solve complex problems and evaluates opportunities for application of technology | * thinks critically, drawing on data and information to solve complex problems and analyses opportunities for application of technology | * thinks critically, drawing on data and information at times to solve problems and explains opportunities for application of technology | * draws on data and information at times to solve problems and describes opportunities for application of technology | * identifies some opportunities for application of technology with limited use of information and data |
| Skills | * applies technology concepts, strategies and methodologies demonstrating an understanding of the historical and cultural context and impact on individuals, groups, communities and society | * applies technology concepts, strategies and methodologies with control demonstrating understanding of the historical and cultural context and impact on individuals, groups, communities and society | * applies technology concepts, strategies and methodologies with some control demonstrating understanding of context and the impact on individuals, groups, communities and society | * applies technology concepts, strategies and methodologies with minimal control demonstrating understanding of the impact on individuals, groups, communities and society | * applies technology concepts, strategies and methodologies with limited control demonstrating little evidence of understanding of the impact on individuals, groups, communities and society |
| * creates innovative and high quality design solutions/products using techniques and approaches and justifies ideas coherently | * creates innovative and quality design solutions/products using techniques and justifies ideas coherently | * creates quality design solutions/ products using techniques and justifies ideas coherently | * creates design solutions/products using some techniques and explains ideas | * plans design solutions/products using some techniques and describes ideas |
| * critically analyses potential prototypes and solutions evaluating their appropriateness and effectiveness via iterative improvement and review | * analyses potential prototypes and solutions explaining their appropriateness and effectiveness via iterative improvement and review | * explains potential prototypes and solutions describing their appropriateness and effectiveness via iterative improvement and review | * describes analyses potential prototypes and solutions with some reference to their appropriateness and effectiveness via iterative improvement and review | * identifies potential prototypes and solutions with little or no reference to their appropriateness and effectiveness via iterative improvement and review |
| * communicates complex ideas and insights effectively in a range of mediums to a variety of audiences using appropriate evidence, metalanguage and accurate referencing | * communicates ideas effectively in a range of mediums to a variety of audiences using appropriate evidence, metalanguage and accurate referencing | * communicates ideas appropriately in a range of mediums to a variety of audiences using appropriate evidence, metalanguage and accurate referencing | * communicates ideas in mediums to a variety of audiences using some evidence, metalanguage and referencing | * communicates basic ideas in mediums to a variety of audiences using minimal evidence, metalanguage and some referencing |
| * reflects with insight on their own thinking and that of others and evaluates inter and intrapersonal skills including planning, time management, use of appropriate techniques & strategies and capacity to work independently and collaboratively | * reflects on their own thinking and that of others and analyses inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking and that of others and explains inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking with some reference to inter and intrapersonal skills including planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively | * reflects on their own thinking with little or no reference to planning, time management, use of appropriate techniques and strategies and capacity to work both independently and collaboratively |

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| Achievement Standards Technologies - M Course Years 11 & 12 | | | | | |
|  | *A student who achieves an* ***A*** *grade typically* | *A student who achieves a* ***B*** *grade typically* | *A student who achieves a* ***C*** *grade typically* | *A student who achieves a* ***D*** *grade typically* | *A student who achieves an* ***E*** *grade typically* |
| **Knowledge and understanding** | * describes and uses the design process and procedures with independence | * describes and uses the design process and procedures with some assistance | * recounts design procedures used with assistance | * identifies design procedures with continuous guidance | * identifies design procedures with direct instruction |
| * describes practical techniques and materials required to address a need or solve a problem with independence | * describes practical techniques and materials required to address a need or solve a problem with some assistance | * recounts practical techniques and materials used to solve a problem with assistance | * uses practical techniques and materials required with continuous guidance | * identifies practical techniques and materials with direct instruction |
| **Skills** | * communicates ideas using appropriate terminology with independence | * communicates ideas using appropriate terminology with some assistance | * communicates ideas using appropriate, terminology with assistance | * communicates ideas using appropriate, terminology with continuous guidance | * communicates ideas using appropriate terminology with direct instruction |
| * makes discerning choice of strategies and procedures to use technology with independence | * selects strategies and procedures to use technology with some assistance | * selects strategies and procedures to use technology with assistance | * selects strategies and procedures to use technology with continuous guidance | * selects strategies and procedures to use technology with direct instruction |
| * demonstrates interpersonal and intrapersonal skills in a range of technology contexts with independence | * demonstrates interpersonal and intrapersonal skills in a range of technology contexts with some assistance | * demonstrates interpersonal and intrapersonal skills in technology contexts with assistance | * demonstrates interpersonal and intrapersonal skills in technology contexts with continuous guidance | * demonstrates interpersonal and intrapersonal skills in technology contexts with direct instruction |
| * plans and undertakes independent inquiries with independence | * plans and undertakes independent inquiries with some assistance | * undertakes guided inquiries with assistance | * undertakes guided inquiries with continuous guidance | * undertakes simple research on a topic with direct instruction |
| * create design solutions/products with independence | * create design solutions/products with some assistance | * create design solutions/products with assistance | * create design solutions/products with continuous guidance | * create design solutions/products with direct instruction |