

Students will be expected to

- 5.1 work independently, co-operatively, and collaboratively to solve technological problems
  - 5.2 demonstrate an awareness of ethics and environmental responsibility in technological decision-making and work habits
  - 5.3 demonstrate preparedness for technological problem solving
  - 5.4 demonstrate safe and healthy practices with regard to materials, processes, and equipment
  - 5.5 document the design process
  - 5.6 independently demonstrate appropriate application of skills learned
  - 5.7 demonstrate measuring skills with accuracy and precision
  - 5.8 communicate ideas using 2-D and 3-D technical drawings and sketches
  - 5.9 use appropriate language and terminology as applied to technology education
  - 5.10 investigate connections between technology education, STEM (Science, Technology, Engineering, and Math), and careers
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- 2.2 design and construct solutions to energy engineering problems
  - 2.6 use mechanical advantage in the solution of a technological problem
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- 3.1 design and construct a system incorporating simple machines that will initiate a series of events
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- 4.7 safely use production equipment and machines to process materials
  - 4.9 use a variety of fasteners to combine materials or assemble a product
  - 4.10 use environmentally friendly finishing techniques to enhance the esthetics or functionality of a product