

Year 7	Year 8
Single Term Units	
<p>Unit title/s: Pencil Holder</p> <p>Learning Area & Strand/s: Design and Technology</p> <ul style="list-style-type: none"> • Technologies and society • Technologies contexts • Creating designed solutions 	<p>Unit title/s: Skill tester</p> <p>Learning Area & Strand/s: Design and Technology</p> <ul style="list-style-type: none"> • Technologies and society • Technologies contexts • Creating designed solutions
<p>Title of CAT: Pencil holder design task</p> <p>Materials specialisation- Wood</p> <p>Type of task: Introduction to the Design Process Investigation Generation Producing Evaluating Planning and managing</p>	<p>Title of CAT: Skill Tester</p> <p>Materials specialisation- Wood & electronics</p> <p>Type of task: Investigation (Social implication of electronic toys) Generation (Orthographic and electrical drawings) Producing Evaluating Planning and managing</p>
<p>Unit title/s: Electronic torch</p> <p>Title of CAT: Electronic torch design project</p> <p>Materials specialisation- introduction Electronics, CAD CAM</p> <p>Type of task: Application to the Design Process Investigation (Electronic devices in the home) Generation (Use CAD to generate designs) Producing (Use 3D printer to produce) Evaluating Planning and managing</p>	<p>Unit title/s: Storage box/ Tool box</p> <p>Title of CAT: Storage box / Tool box</p> <p>Type of task: Create a storage box or tool box</p> <p>Materials specialisation - Timber</p> <p>Type of task: Application to the Design Process Investigation Generation (alternate design solutions) Producing (a product to a standard) Evaluating Planning and managing</p>

<p>Unit title/s: Key tag</p> <p>Title of CAT: Key tag design</p> <p>Materials specialisation- introduction plastic, CAD CAM</p> <p>Type of task: Application to the Design Process Investigation (introduction to plastic materials) Generation (manipulation of images to monochrome) Producing (Use computer aided engraver to produce) Evaluating Planning and managing</p>	<p>Title of CAT:</p> <p>Type of task:</p>
<p>Unit title/s: Wall Mounted Hanger</p> <p>Title of CAT: Wall Mounted Hanger</p> <p>Materials specialisation- introduction metals, mass production</p> <p>Type of task: Application to the Design Process Investigation (introduction to joining metals) Generation (following a production plan) Producing (Use manufacturing aids to produce on mass) Evaluating Planning and managing</p>	<p>Title of CAT:</p> <p>Type of task:</p>

CESC Scope and Sequence – Design Technology - 2016

Year 9

Semester-long Elective Units

Unit title/s: Woodwork	Unit title/s: Resistant Materials	Unit title/s: Systems/ Electronics	Unit title/s: Textiles
<p>Learning Area & Strand/s: Design and Technology</p> <ul style="list-style-type: none"> Technologies and society Technologies contexts Creating designed solutions 	<p>Learning Area & Strand/s: Design and Technology</p> <ul style="list-style-type: none"> Technologies and society Technologies contexts Creating designed solutions 	<p>Learning Area & Strand/s: Design and Technology</p> <ul style="list-style-type: none"> Technologies and society Technologies contexts Creating designed solutions 	<p>Learning Area & Strand/s: Design and Technology</p> <ul style="list-style-type: none"> Technologies and society Technologies contexts Creating designed solutions
<p>Title of Unit: Drawer Unit</p> <p>Title of CAT: Drawer Unit</p> <p>Materials specialisation- Timber</p> <p>Type of task: Application to the Design Process Investigation (Timber joints) Generation (Design solutions) Producing (Introduction power tools) Evaluating Planning and managing (project management)</p>	<p>Title of Unit: Water Rockets</p> <p>Title of CAT: Water rocket design project</p> <p>Materials specialisation- plastics and metals (aluminium)</p> <p>Type of task: Application to the Design Process Investigation (plastic materials) Generation Producing (Introduction to the centre (metal) lathe Evaluating (use evaluation criteria to assess) Planning and managing (project management)</p>	<p>Title of Unit: Printed Circuit Boards</p> <p>Title of CAT: Printed Circuit Boards</p> <p>Materials specialisation- Electronics , Printed circuit boards</p> <p>Type of task: Application to the Design Process Investigation (electronic components) Generation (Electronic circuit diagrams for PCBS) Producing (produce functioning PCBS) Evaluating (test, analyse, repair) Planning and managing (project management)</p>	<p>Title of Unit: Plush Toy</p> <p>Title of CAT: Plush Toy</p> <p>Materials specialisation- Textiles</p> <p>Type of task: Application to the Design Process Investigation (What are textiles, raw materials etc....Existing products) Generation (Students generate and develop a number of design ideas for a toy relevant to a design brief) Producing (Students produce a plush toy) Evaluating (Students analyse and evaluate their overall unit of work as well as their performance) Planning and managing (project management)</p>
<p>Title of Unit: Bed side drawer Unit</p> <p>Title of CAT: Bed side drawer unit</p> <p>Materials specialisation- Timber</p> <p>Type of task: Application to the Design Process Investigation Generation (Design solutions) Producing (Introduction power tools) Evaluating Planning and managing (project management)</p>	<p>Title of Unit: Stained Glass</p> <p>Title of CAT: Stained Glass project</p> <p>Materials specialisation- introduction to glass</p> <p>Type of task: Application to the Design Process Investigation (inspirational images) Generation (design solutions) Producing (intro to lead lighting techniques) Evaluating</p>	<p>Title of Unit: Solar Car</p> <p>Title of CAT: Solar Car</p> <p>Materials specialisation- Electronics, mechanical systems, renewable energy</p> <p>Type of task: Application to the Design Process Investigation (Mechanical systems) Generation (Design considerations & solutions) Producing (produce functioning solar car)</p>	<p>Title of Unit: Throw Cushion</p> <p>Title of CAT: Throw Cushion</p> <p>Materials specialisation- Textiles</p> <p>Type of task: Application to the Design Process Investigation (Collecting information and imagery, students research and investigate the following:</p> <ul style="list-style-type: none"> Specific embroidery techniques (blanket-stitching)

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Planning and managing (project management)

Evaluating (time trial, data acquisition, evaluation)
 Planning and managing (project management)

- Fabric printing and dyeing processes
- Textiles and pattern (printed, knitted, woven)

Generation (Students generate and develop a number of design ideas for a toy relevant to a design brief)

Students carry out preliminary work and prepare materials ready to start the production process. This stage includes:

- Cutting fabric
- Drawing/marketing out
- Producing a printing block

Producing (Students produce a throw cushion using knowledge and skills gained throughout the unit (hand sewing techniques, machine sewing techniques, decorative techniques, correct use of materials and equipment)

Evaluating (Students analyse and evaluate their overall unit of work as well as their performance)

Planning and managing (project management)

CESC Scope and Sequence – Design Technology - 2016

Year 10	Year 10	Year 10	Year 10
Semester-long Elective Units			
Unit title/s: Wood work Learning Area & Strand/s: Design and Technology <ul style="list-style-type: none"> • Technologies and society • Technologies contexts • Creating designed solutions 	Unit title/s: Electronics Learning Area & Strand/s: Design and Technology <ul style="list-style-type: none"> • Technologies and society • Technologies contexts • Creating designed solutions 	Unit title/s: Resistant Materials Learning Area & Strand/s: Design and Technology <ul style="list-style-type: none"> • Technologies and society • Technologies contexts • Creating designed solutions 	Unit title/s: Learning Area & Strand/s: Design and Technology <ul style="list-style-type: none"> • Technologies and society • Technologies contexts • Creating designed solutions
Title of Unit: Door/ Drawer unit Title of CAT: Door/ Drawer Unit Materials specialisation- Timber Type of task: Investigation (existing product designs, timber joints)) Generation (design options to meet design brief)) Producing Evaluating Planning and managing (budget, project management)	Title of Unit: Printed Circuit Board Title of CAT: PCB Materials specialisation- Electronics, Picaxe programing Type of task: Investigation (electronic components) Generation (Programing solutions) Producing (Functioning PCBs) Evaluating Test, analyse, Planning and managing	Title of Unit: Clocks Title of CAT: Clocks Materials specialisation- Plastics Type of task: Investigation (Inspirational images) Generation (design ideas) Producing (functioning clock) Evaluating Planning and managing	Title of Unit: Title of CAT: Materials specialisation- Type of task: Investigation Generation Producing Evaluating Planning and managing
Title of Unit: Title of CAT: Materials specialisation- Type of task: Investigation Generation Producing Evaluating Planning and managing	Title of Unit: All-terrain vehicle Title of CAT: All-terrain vehicle Materials specialisation- Electronics systems, mechanical systems, Type of task: Investigation (Computer based numbering systems) Generation (CAD based circuit development) Producing (CAM based PCB) Evaluating (Diagnostic testing of product) Planning and managing	Title of Unit: Candle holder Title of CAT: Candle holder Materials specialisation- Metals (steel) Type of task: Investigation Generation (design solutions) Producing (welding, joining metals) Evaluating Planning and managing	Title of Unit: Title of CAT: Materials specialisation- Type of task: Investigation Generation Producing Evaluating Planning and managing

