

Bramhall High School Electronics D &T



A Level Design Technology–Grade 6

BTEC

Other post 16 options – including Apprenticeships, other A level subjects, other BTEC subjects, other training, College.

End of year examinations

Electronics Controlled Assessment

Consolidation and revision of learning

YEAR

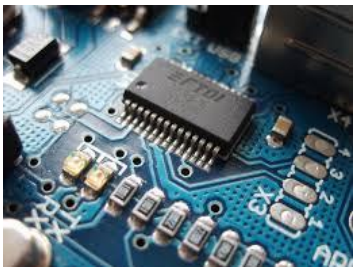
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Electronics Specialist technical principles

Electronics Additional Skills

YEAR

10



National Curriculum Compliant

Electronics

Target market
Skills in drawing designs by hand (crating).
Component Research & analysis – specification
Skills in cutting MDF using coping saw and vibra saw.
Independent advanced evaluation of existing electronic products
Use of 2D design
Production of working drawing in isometric and casing CAM plans.
Resistor colour codes.
Use of Circuit wizard to draw and simulate circuit function..
Circuit diagram analysis and function.
Creating cases using plastic in oven and drape former, wood cutting and CAM machining .
Spray painting.
Creating model prior to manufacture.
Planning time effectively
Use of digital camera
Use of Circuit wizard to draw and simulate PCB function
Use of CAD and CAM.
Creation of final product
Creativity and originality



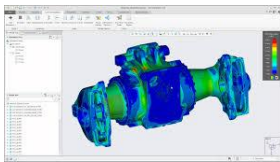
YEAR

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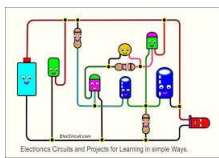
Electronics

Skills in drawing designs by hand.
Skills in cutting MDF using coping saw and vibra saw.
Independent evaluation of existing electronic products
Component Research & analysis – specification
Use of 2D design
Production of plan view working drawing.
Resistor colour codes.
Use of Circuit wizard to draw and simulate circuit function..
Circuit diagram analysis and function.
Creating cases using, wood and metal cutting and machining.
Planning time effectively
Target market
Use of digital camera
Tracing using light box
Use of Circuit wizard to draw and simulate PCB function
Use of CAD.
Creation of final product
Use and understanding of jigs



YEAR

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Electronics

Target market
Component Research & analysis – specification
Safe use of soldering equipment
Joining of components to a PCB.
Joining of components onto wires
Component recognition and function.
Creation of Design ideas.
Resistor colour codes.
Use of Circuit wizard to draw and simulate circuit function..
Circuit diagram analysis and function.
Skills in drawing designs by hand.
Experimentation with layering up plastic to form images.
Creating cases using line bender and vacuum former.
Creation of final product .



welcome

YEAR

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