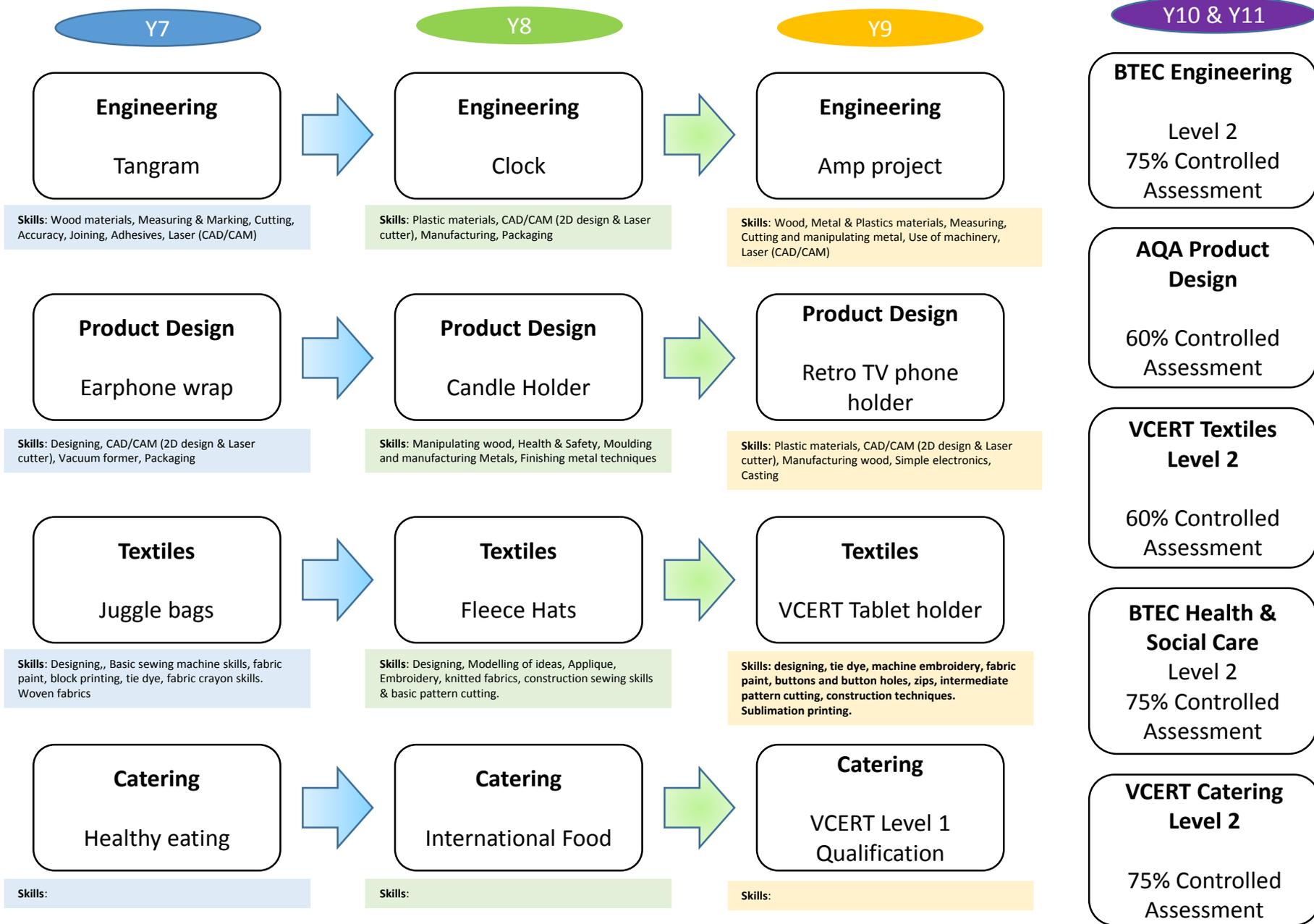


How do the skills transfer?



Y7

ENGINEERING

- a) Develop creative designs
- b) Accurate use of tools and CAD/CAM
- c) Investigate ways of manipulating of wood

Skills: Wood materials, Measuring & Marking, Cutting, Accuracy, Joining, Adhesives, Laser (CAD/CAM)



Y8

ENGINEERING

- a) Understand advanced wood joints
- b) Understand basic mechanisms
- c) Understand about finishing techniques

Skills: Plastic materials, CAD/CAM (2D design & Laser cutter), Manufacturing, Packaging



Y9

ENGINEERING

- a) Know about manufacturing processes used to produce an Engineered product
- b) Know about a range of engineering materials and their properties

Skills: Wood, Metal & Plastics materials, Measuring, Cutting and manipulating metal, Use of machinery, Laser (CAD/CAM)

Y10 & Y11

BTEC Engineering

Level 2
75% Controlled Assessment

AQA Product Design

60% Controlled Assessment

VCERT Textiles Level 2

60% Controlled Assessment

BTEC Health & Social Care Level 2

75% Controlled Assessment

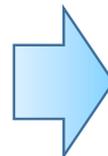
VCERT Catering Level 2

75% Controlled Assessment

PRODUCT DESIGN

- a) Investigate ways of manipulating plastic
- b) Safe and effective use of CAD/CAM
- c) Understand the use of branding and packaging

Skills: Designing, CAD/CAM (2D design & Laser cutter), Vacuum former, Packaging



PRODUCT DESIGN

- a) Investigate ways of manipulating metal
- b) Understand how to use research to influence creative designs
- c) Understand and explore metal manufacturing processes

Skills: Manipulating wood, Health & Safety, Moulding and manufacturing Metals, Finishing metal techniques



PRODUCT DESIGN

- a) Understand the design principles of form, function and fitness for purpose
- b) Generate design ideas against criteria, and modify ideas using on-going analysis, evaluation and product development

Skills: Plastic materials, CAD/CAM (2D design & Laser cutter), Manufacturing wood, Simple electronics, Casting

TEXTILES

- a) Understand properties of woven fabrics
- b) Developing basic practical skills
- c) Explore the use of various decorative techniques.

Skills: Designing,, Basic sewing machine skills, fabric paint, block printing, tie dye, fabric crayon skills. Woven fabrics



TEXTILES

- a) Understand properties of knitted fabrics
- b) Developing construction practical skills
- c) Demonstrate basic pattern cutting
- d) Develop further decorative techniques

Skills: Designing, Modelling of ideas, Applique, Embroidery, knitted fabrics, construction sewing skills & basic pattern cutting.



TEXTILES

- a) Identify and select appropriate materials and techniques
- b) Identify and use sources to create sample pieces
- c) Sharing samples with others and responding to feedback.

Skills: designing, tie dye, machine embroidery, fabric paint, buttons and button holes, zips, intermediate pattern cutting, construction techniques. Sublimation printing.