Name three approaches to design.

Three approaches to design are iterative design, user-centred design and the systems-based approach.

What is the name of this component circuit symbol?

This component circuit symbol is a thermistor.

Name the British fashion designer who was a major player in the New Romantic and New Wave pop culture fashions.

The name of this British fashion designer is Vivienne Westwood.

Name the international clothing retailer, based in Dublin, which is known for its low cost fashion products.

The name of this clothing retailer is Primark.

What does the Mobius Loop symbol show?

The Mobius Loop symbol shows that a product can be recycled.
When using anthropometric data, designers often work from the 5th to the 95th percentile. True or false?

A design brief is a short description of the design problem, and how it will be solved.

A toile is a test version of a piece of clothing, made from cheap materials.

Exploded drawings show how all parts of a product fit together.

Working drawings are also known as orthographic drawings.
Spreadsheet software helps to create data tables and calculations.

The letters stand for:
- C – cost
- A – aesthetics
- F – function
- E – ergonomics
- Q – quality
- U – user
- E – environment

Renewable energy sources include solar, wind, hydro-electrical, biomass and tidal.

Strict procedures must be followed as nuclear materials can stay hazardous for thousands of years.

This type of motion is called reciprocating motion.

Name some renewable energy sources.

Why must there be strict procedures for the disposal and storage of nuclear waste?

What is the name of this type of motion?

What does spreadsheet software help to create?

What do the letters stand for in the CAFÉ QUE mnemonic?

This type of motion is called reciprocating motion.
Cams are usually used to convert rotary motion to oscillating motion. True or false?

False. Cams are used to convert rotary motion to reciprocating motion.

What tensile strengths do wood and metals have?

Wood has low tensile strength; metals have high tensile strength.

Name two chemicals that may be added during the manufacture of paper.

Chalk and dye may be added during the manufacture of paper.

Which size of paper is bigger: A5 or A6?

A5 is bigger than A6.

What does MDF stand for?

MDF stands for medium density fibreboard.
What is a non-ferrous metal? A non-ferrous metal is a metal that doesn’t contain iron.

What is a typical use of both PP and HIPS? PP (polypropylene) and HIPS (high-impact polystyrene) are both used for packaging.

What fossil fuel is used to make synthetic fibres? Oil is used to make synthetic fibres.

What is a nanomaterial? A nanomaterial is a material that is made up of particles less than 100 nanometres in size.

Name three types of standard component that can be used with paper and board. Clips, fasteners and bindings are standard components that can be used with paper and board.
Galvanising is when **metal** is dipped into a bath of **molten zinc**.

Aesthetics refers to how an object **appeals** to the **five senses**.

The surface of aluminium products may be anodised to **improve hardness**.

**Batch production** is used to manufacture high-street store clothing.

Die-cutting is used to **cut shapes and holes**.
Name the different types of saw used for cutting timber.

Tenon saws, coping saws, band saws, circular saws, fretsaws and jigsaws can all be used for cutting timber.

What is shearing?

Shearing is the use of metal shears or a guillotine to cut thin sheet metal.

How are simple bends made in thermoplastics?

A line bender is used to create simple bends in thermoplastics.

What is the most common method of joining fabrics together?

Sewing with thread is the most common method of joining fabrics together.

How are components usually joined to a circuit board?

Components are usually joined to a circuit board by soldering.
The purpose of a jig when machining is to ensure that the machining is carried out in the correct place on the workpiece and/or hold it securely.

Precision is how close a measurement is to its true value or standard. True or false?

False. Accuracy is how close a measurement is to its true value or standard. Precision is how repeatable/reproducible the measurement is.

Give examples of virtual marketing.

Examples of virtual marketing include the use of website banner advertising, email marketing and social media to promote products.

Give three examples of CAM equipment.

Examples of CAM equipment include laser cutters, vinyl cutters and 3D plotters.

What is meant by inclusive design?

Inclusive design is about creating designs that can be used by everyone (ideally without any special adaptations).