

### CAD Skills

Pupils will use Computer Aided Designs (CAD) techniques, following on skills gained in years 7 and 8, to create complex graphic symbols and images. Pupils will learn how to build rating symbols, creative barcodes etc... and manipulate and create their own typography.



### Key words and Vocabulary



**Image trace, Rotate, Glow, Opacity, Shortcut, Advanced, Gradients, Rating Symbols, Barcode, Ergonomics, Anthropometrics, Kerning, Typography**

*Pupils will need to articulate their process using key words and technical vocabulary.*

### The Design Process

- Discuss ideas
- Sketch ideas using drawing techniques
- Learn about ergonomics
- Layout plan of your project
- Use advanced photo editing and drawing tools to create complex graphics and typography
- Quality Control
- Print / cut the final design
- Evaluate

### Health and Safety

The workshop rules must be adhered to at all times.

- Keep work space tidy
- Do not touch computer wires
- Put chairs under tables
- Use craft knives safely
- Safely use glues/sprays/ scissors
- Excellent behaviour
- Safely use the rotary cutter



These rules are in place to keep everyone safe when working in a practical environment.

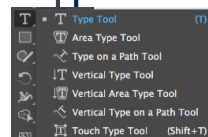
### Range of software



Reinforcing our knowledge of:  
 - **Illustrator** (Drawing software)  
 - **Photoshop** (Image software)  
 We will progress through higher level techniques to produce more intricate graphics.

### Tools and Equipment

- **Minus Front** – lets you cut shapes out of other shapes
- **Unite** – merge two or more shapes together
- **Intersect** – cut out the intersect of a shape
- **Glow** – add radiant glow effects to your images
- **Inner Shadow** – adds a shadow inside the image itself
- **Colour Overlay** – add a sheet of colour (s) over your image
- **Create Outlines** – change text into a shape
- **Compound path** – make several elements ONE object
- **Pen add anchor points** – place movable points along your shapes and lines



*You will learn how to use a range of computer tools and equipment in the workshop correctly, safely and independently.*

