

Teaching and Learning Content: Design and Technology

Year Group: 9

Half Term 4



Design and Technology

Home Learning:

Students are expected to complete weekly homework

Key Questions:

- How can 2D Designs produce 3D outcomes?
- What is a geometric shape?
- How can electrical components create a circuit?
- What does LED stand for?
- How can a moodboard be used to inspire design?
- How does dye sublimation work?
- How does a laser cutter work?

Students will:

- Be confident in drawing 2D nets to create 3D objects.
- Be able to explain different geometric shapes.
- Have an understanding of basic electrical components.
- Assemble a circuit from a range of electrical components.
- Take a creative approach to designing a surface pattern of their lamp.
- Apply a digital approach to printing using dye sublimation.

Diagnosis

- Do Now/Recall activities
- Mini whiteboard activities

Therapy

- Teacher Demonstration
- WAGOLL (what a good one looks like)
- DIRT tasks
- Peer to peer support
- Whole class feedback

Testing

- Manufacture of lamp shade.
- Manufacture of soldered PCB.
- Spelling test of key words.
- End of topic test.

- Be able to transfer a design from a computer to a lasercut outcome..