

# YEAR 10 Design and Technology 'I can do'...Statements



**Kings Langley School**  
Unlocking Potential for Life

Phase 1: New and Emerging Technologies	Check 1	Check 2	Final check
<b>Lesson 1: Industry and Enterprise</b>			
I can explain the impact of new and emerging technologies on the design of work places and tools and equipment			
I Can explain how computers and automation have changed manufacturing through the use of robotics			
I Can explain how innovation can drive product development and enterprise			
I can explain the use of crowd funding and virtual marketing			
I can explain a co-operative and fair trade organisation			
<b>Lesson 2: Sustainability</b>			
I can explain that new technologies need to be developed and produced in a sustainable way			
I can explain the impact that excessive use of certain materials has on the environment			
I can list how the environment can be protected by responsible design and manufacturing			
I can explain how waste can be disposed of with the least impact on the planet			
I Can explain how the positive and negative impacts new products have on the environment			
<b>Lesson 3: People culture and Society</b>			
I can explain how technology push and market pull affect consumer choice and employment			
I can explain changes in job roles due to the emergence of new ways of working			
I can explain changes in fashion and trends and how they affect designers and manufacturers			
I can list and explain how new products can have both a positive and negative impact on society			

Lesson 4: Production			
I can explain contemporary and potential future use of automation, Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM)			
I can recognise and characterise the use of Flexible Manufacturing Systems (FMS)			
I Can explain how Just In Time (JIT) works and Lean Manufacturing contribute to manufacturing efficiencies			
Lesson 5: Information design decisions			
I can evaluate the advantages and disadvantages of planned obsolescence from different perspectives			
I can understand how products can be designed to be repaired and recycled			
I can explain ethical and environmental concerns when designing with new technologies			
Lesson 6: Assessment			
I can apply my knowledge in answers to a range of questions			
I can highlight areas of strength and any gaps in their understanding of this unit			