New and emerging technologies · notes sheet

Name: _____ Date: _____ AQA 3.1.1

1. Industry and automation

Idea	What it means	One benefit	One drawback
Automation / robotics			
Trade unions			
Changing job roles			

Lab test: robot arms replace hand packing.	
I predict:	**What happened and why:**

2. Enterprise

Idea	What it means	Example
Privately owned business		
Crowdfunding		
Virtual marketing and retail		
Co-operative		
Fair Trade		

Lab test: crowdfunding a bike light.	
I predict:	**What happened and why:**

3. Sustainability

Finite resources: _____. Non-finite resources: _____.

Ways to deal with waste: _____

Lab test: oil and managed timber over 100 years.	
I predict:	**What happened and why:**

4. People, culture and society

Technology push means _____. Example: _____

Market pull means _____. Example: _____

Inclusive design means _____

Lab test: touchscreen: push or pull?	
I predict:	**What happened and why:**

5. Production techniques

Technique	What it means	Benefit
CAD/CAM		
Standardisation		
FMS		
Just in time		
Lean manufacturing		

Lab test: what happens to stock with JIT?	
I predict:	**What happened and why:**

6. Design decisions

Planned obsolescence: _____. Its impact: _____

Design for maintenance: _____. Its benefit: _____

Lab test: six years of sealed vs repairable phones.	
I predict:	**What happened and why:**

7. Quick fire

Situation	Answer
Paying fairly for cocoa	
Fund a product before making it	
Materials arrive when needed	
Made to fail on purpose	
Users ask, designers respond	
Oil, metal ores	

Exam question (4 marks)

Discuss the impact of automation on the workforce of a furniture factory. *Tip: make a point, then link it with **so…***