

OBHS Core Questions:

Subject: Design & Technology

Year and Term: Year 10 Autumn term

Topic: New and emerging technologies



	Question	Answer
1.	What does automation mean?	Products are made using robotics
2.	List 3 ways that automation has made producing products easier	<ul style="list-style-type: none"> • Less mistakes • Quicker • Consistent
3.	Explain what 'crowd funding is'	Crowd funding is a method of raising money for a project by getting lots of people to give small amount of money. It has been possible by the development of the Internet and social media.
4.	Give an example of company that is owned by the workers.	Co-operatives, John Lewis
5.	Give an example of a product you might associate with fair trade.	Bananas, Cotton, Cocoa
6.	What do you think are the 2 main reasons why we get improvements to products or that we get entirely new products on the market?	<ul style="list-style-type: none"> • Market Pull • Technology push
7.	State 4 ways mobile phones have been designed to meet the needs of the Elderly?	<ul style="list-style-type: none"> • Bigger buttons • Simple user interface • Bigger screen • ICE function
8.	State 4 ways new technologies can have a positive effect on the environment	<ul style="list-style-type: none"> • if an electrically powered products if made more efficient, it will use less energy and therefore put less pressure on the use of non-finite resources. • Using less material in a product can have a positive impact. • Efficient working processes can also be beneficial for the environment. Efficient, automated production lines can produce products very quickly. • CNC machines and robots are very precise, leading to fewer errors and less waste. • Technology that uses alternative energy sources such as the sea, wind, sun and rivers can help to minimise the impact of products on the environment.
9.	State 4 ways CAD/CAM improves products	<ul style="list-style-type: none"> • Faster • More efficient • Precise • High production outcomes – automation can run 24/7
10.	In business, a method of raising brand awareness by using websites and social media is called what?	Virtual marketing
11.	Planned obsolescence is when a product is designed to what?	To have a short lifespan
12.	List 3 fossil fuels	Crude oil, gas, coal
13.	List 4 renewable energy sources	Biomass, Solar, Wind, Tidal
14.	List 2 advantages of wind power	<ul style="list-style-type: none"> • Wind is a renewable source (it won't run out) • Clean energy – low carbon emissions
15.	List 2 disadvantages of wind power	<ul style="list-style-type: none"> • Not as windy in the summer months • Eye sore • Hazard to birds
16.	List 2 advantages of solar power	<ul style="list-style-type: none"> • Can lower energy bills • Always going to have sunlight
17.	List 2 disadvantages of tidal power	<ul style="list-style-type: none"> • Expensive • Destruction of habitats
18.	Which type of renewable energy is sourced from plants?	Biomass
19.	What are the 2 types of battery?	<ul style="list-style-type: none"> • Primary (single use) • Secondary (rechargeable)
20.	set across 2 levels. The pumped storage system releases water from the highest reservoir to the lowest one through turbines which turn generators and produce electricity. Is a description of which type of energy storage system?	Hydro-electric power

Learn these questions to build a strong foundation of knowledge for this half-term. Ask family or friends to test you regularly, or practise on your own using the 'Look, Say, Cover, Write' method.