

## Year 6 - Digital world: Navigating the world

Biodegradable	Materials that break down and form part of the soil as part of the natural decomposition process.
Boolean	A form of data, which consists of (true) 1s and (false) 0s values.
Environmentally friendly	Does not cause harm to nature (animals, plants etc).
Finite	Limited in number, will eventually run out.
If statement	To instruct a program to respond based on two or more conditions (e.g. if it is below 10 degrees celcius turn on the heating; else switch the heating off).
Mouldable	Can be made into any shape.
Product lifecycle	How long an object is expected to last before becoming unusable.
Product lifespan	How long an object will last, before being recycled.
Smart	A device with processing capabilities.
Sustainable	Can be maintained.

## Key facts



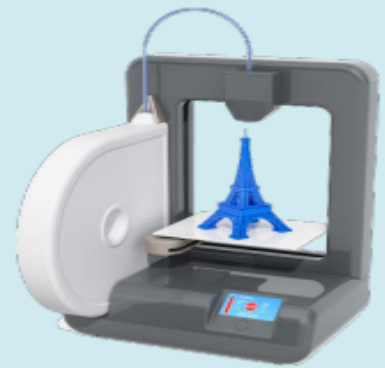
One electronic product with multiple functions could help lighten the load.

## 3D printing

A 3D printer can receive and output a 3D model file as a physical item.

It is very expensive to set up and fill with materials.

The models are restricted by the colour of the material the printer uses, but can be hand-painted after printing to add detail.



Sometimes we need multiple products to help us achieve something. This can be a lot to carry especially if you are trekking.



GPS tracker



Compass



Torch or headlamp



A map



Pedometer

## Sustainable materials



**Cork**  
Developed from living trees, without causing them harm. Cork comes from bark that regenerates.



**Bamboo**  
Grows rapidly - some species will reach 3 ft in a single day.