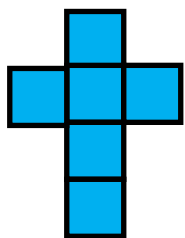




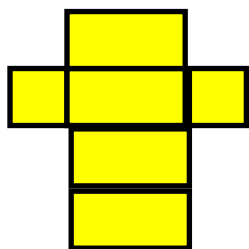
Can you design and make a party box to reduce the waste of plastic?

Shell structures

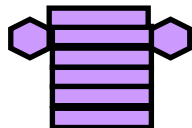
Cubes



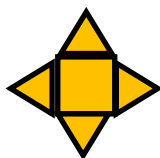
Cuboids



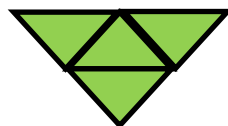
Hexagonal prism



Pyramid



Tetrahedron



Stiffening and strengthening

Laminating: glue together several layers of card



Corrugating: zigzag a piece of paper and glue in between two layers of card.



Ribbing: glue layers of straws between layers of card.



Glossary

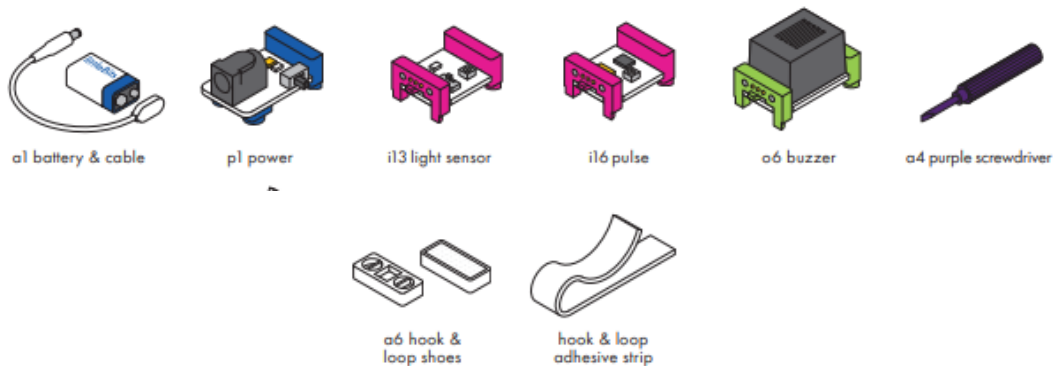
shell structure	a hollow structure made from a thin outer layer.
stiff	does not bend easily.
net	what a 3D shape would like like if it was opened out and laid flat.
tabs	an attached flap or piece of material.
strong	able to resist impact and crushing



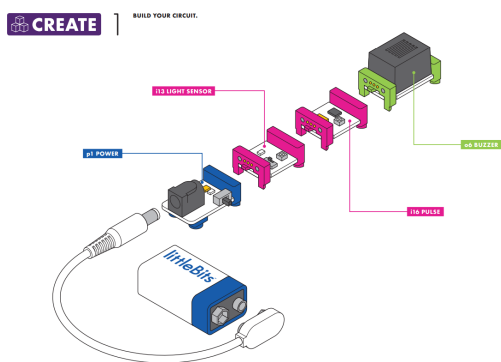


Can you invent a device that aids with security?

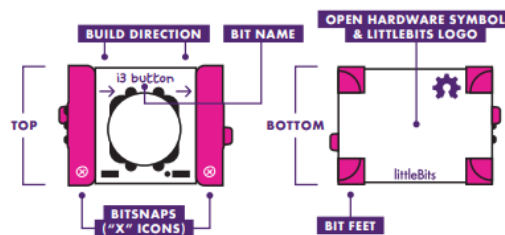
LittleBits STEAM components



LittleBits Security Device



Anatomy of a Bit



algorithm	A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer.
debugging	The process of identifying and removing errors from computer hardware or software.
input	Signals or data that is received by a computer to give it an action
output	How a computer presents what has been inputted (on the screen, printing etc.)
coding	The process of writing a computer program
circuit	A complete circular path that electricity flows through
device	Something made of adapted for a particular purpose



LittleBits STEAM
What do the different parts do?



LittleBits STEAM
How can you create a security device?

