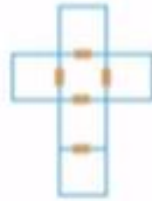




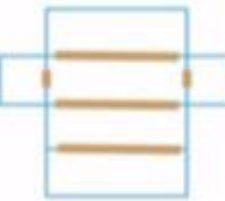
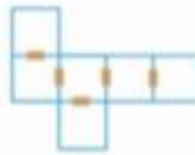
Key Vocabulary

Word	Meaning
Cuboid	a solid body with rectangular sides
Edge	where two surfaces meet at an angle
Face	surface of a geometric shape
Font	printer's term meaning the style of lettering being used
Net	the flat or opened-out shape of an object such as a box
Prism	a solid geometric shape with ends that are similar, equal and parallel
Scoring	cutting a line or mark into sheet material to make it easier to fold
Shell Structure	a hollow structure with a thin outer covering
Vertex	used to refer to the corners of a solid geometric shape, where edges meet

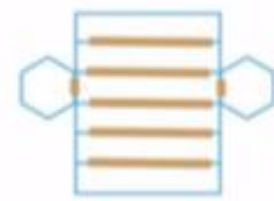
Nets



Nets for cubes



Cuboid net



Hexagonal prism net



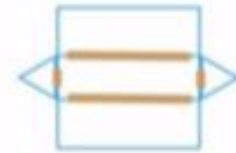
Tetrahedron net



Hexagonal based pyramid net

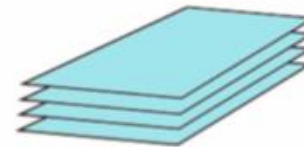


Square based pyramid net

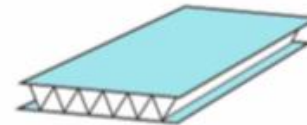


Triangular prism net

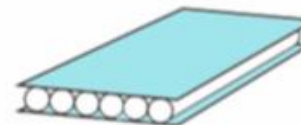
Stiffening and Strengthening



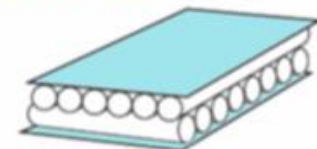
Laminating - glue together several layers of card



Corrugating - zig-zag a piece of paper or card and glue in between two layers of card



Ribbing - glue layers of straws between layers of card



Designing, making and evaluating packaging

THOUGHT	ACTION
What type of shell structure shall I make? What will be the purpose of my product? How will my product appeal to my intended user?	Discussing ideas, drawing annotated sketches, generating design criteria
Which materials will I use to make it?	Investigating and evaluating possible materials
Which shape will be the best for my structure? How will I stiffen and strengthen my structure?	Discussing, constructing and comparing different nets Exploring strengthening techniques Evaluating prototypes against success criteria
What graphics techniques will I use to achieve a desired visual effect and purpose?	Discussing, exploring, trialling and evaluating different graphics effects
Will I work with someone else? How long will it take? What order will I work in? What tools, techniques and skills will I use?	Negotiating, developing and agreeing a plan of action, evaluating actions
Do I need to adjust or change anything?	Discussing, trying out and modifying the design
Will my product meet the needs of the user?	Evaluating the product with the intended user and against the success criteria

Ignite ♦ Grow ♦ Inspire

Shell Structures



Extend your Learning

- Disassemble cardboard of packaging to investigate the nets and tabs that have been used
- Investigate the fonts on packaging
- Visit the Museum of Brands <https://museumofbrands.com/> in London, to discover how packaging has changed through the ages