# Year 5 DT: Structures - Chocolate Frog Packaging Vocabulary

corrugated	Something shaped into a series of parallel ridges and grooves to give added rigidity and	
	strength	
present	show	
contain	To keep something inside something else	
preserve	To keep something from decomposing	
scoring	To scratch paper / card in order to fold it	
faces	The surface of something	
nets	A group of 2D shapes that when folded make a 3D shape	
apertures	A space through which light passes	
tahs	A small flap or strip of material attached to or from something, used to hold, fasten, or manipulate it.	
ribbing	A riblike structure or pattern which can be used to strengthen structures	
laminating	overlay (especially paper) with a layer of plastic or some other protective material which can be used to strengthen structures	
Isometric	Paper with horizontal dots, used to draw 3D diagrams	
paper		









## Year 3 Art: Cave Art – Drawing and Painting

### Knowledge

- To understand the four main purposes of food packaging:
  - o to protect
  - o to present
  - o to contain
  - o to preserve.

### **Scoring**

- To understand that scoring helps to create neat folds in a 2D net to create a 3D shape.
- To understand that scoring can be conducted using a biro / pair of scissors.
- To understand that you score using a ruler and by pressing on lightly and by moving the biro / scissors away from you.
- To understand that nets have faces and tabs and apertures.

#### Strengthening Structures

- To understand that there are a variety of ways in which structures can be strengthened and stiffened:
  - o folding and shaping
  - o corrugating
  - o ribbing
  - o laminating
  - o gluing

- To understand that when designing a product, you need to consider:
- <u>Purpose</u> (what it is being designed for)
- o Who will your product be for?
- What does the product need to do (present, protect, preserve, contain)
- Design Specification
- o How may chocolate frogs will it hold?
- Do you need to see the chocolate frogs (aperture)?
- o Which 3D shape will you use?
- o How will you strengthen it?
- Which materials will you use?
- How will the net be put together?
- Will you put anything inside the container?
- To know that we can use isometric paper to draw our designs
  - Vertical dots will be in line so that vertical lines are always drawn
  - Horizontal lines are not drawn horizontally

Quizzing	Quiz at home			
Ask your partner the questions below. Can they find the correct side?	Ask your adult to look at the KO.			
If a shape has a length and a width it is called a shape?	To help join faces together	Quiz them using the vocabulary and		
Why do some cake containers have apertures?	Present, Preserve, Contain, Protect	knowledge section or the quiz questions.		
Why do Amazon parcels not have apertures?	So that you can see how good they look	•Can they beat your score?		
If a shape has a length and a width and a height it is called a shape?	So that the 3D shape is easier to open	<ul> <li>Can they score more than 5? 10?</li> <li>Compete with your adult in the elimination quiz. Take it in turn to ask each other questions. The first person to get a question wrong is out.</li> </ul>		
Why are tabs important when creating 2D nets?	Tσ protect what is inside			
What are the four purposes of packaging?	2D			
	So that it is less likely to be stolen 3D			
	Preserve, Prevent, Protect, Present	<b>A A C</b>		
Big Questions	Beat Your Adult			
<ol> <li>Why do you think Amazon packaging is not visually appealing?</li> <li>Why do you think sweet packaging is visually appealing?</li> <li>What happens if you do not score along lines you want to fold?</li> <li>Which 3D shapes have 6 faces?</li> <li>Why do you think delivery drivers sometimes ask you to sign to say that you have received a parcel?</li> </ol>	How many 3D     shapes can you     name in 1 minute?	- ? - ?		

Word scramble	Tasks	Creative Task		
Unscramble the key vocabulary from this topic below. You can create your own at the bottom	1. How many different ways can you design a 2D net which will fold to create a 3D cube / cuboid? Can you add tabs to help you join it together? Can you use scoring to help you fold it?  2. Design a packaging that would be used to present a new type of sweet.			
nesrtep	Give your product a name.			
gutarrocd	3. Create a package which has been strengthened using any number of the different strengthening techniques taught in school. <i>(If you need</i>			
Reresvep				
Café	any res	sources, please ask your teacher)		
bats				
bingbir				
sureratpe				
ginrocs				
WO(R)D		Net of a cuboid Cuboid Net of a triangular prism Thangular prism		
scramble		Net of a square-based Square-based Syramid Net of a cylinder Cylinder		

# Tell a partner / an adult the definition for the missing spaces below Vocabulary

corrugated		
	show	
contain		
	To keep something from decomposing	
scoring		
	The surface of something	
	A group of 2D shapes that when folded make a 3D shape	
apertures		
tabs		
	A riblike structure or pattern which can be used to strengthen structures	
	overlay (especially paper) with a layer of plastic or some other protective material which can be used to strengthen structures	
Isometric		
paper		







