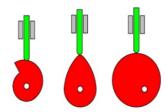
Lesson 7

DMA LO: To design my own moving toy

Who tau	ight you in this session?	Teacher	TA	1:1	HLTA				
	Independent	Supported							
Child	L.O. To design my own moving toy ONNERSTONES Programme of study: Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups ONNERSTONES Essential skills: Develop detailed criteria for designs for products aimed at particular individuals or groups, sharing ideas through cross-sectional and exploited diagrams, prototypes and pattern pieces								
	I know I must carefully think about my design I can sketch accurately, labelling its parts								
	I understand the CAFEQUES to create design criteria	hemes and ca	n use the	m to					
Lesson	Lesson 7								

Cam creat



PROGRESSION OBJECTIVES

Develop design criteria for a functional and appealing product that is fit for purpose, communicating ideas clearly in a range of ways. Design criteria should cover the intended use of the product, age range targeted and final appearance. Ideas can be communicated in a range of ways, including through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.

Today we are going to design our cam models! Have a look at the examples and decide what you would like yours to look like:









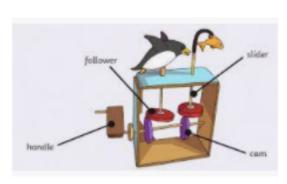
To start with, we need a design brief!

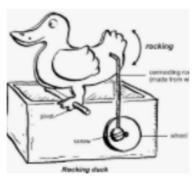
This tells us what the aim of our project is. What could ours be?

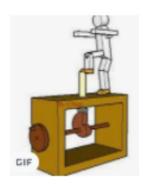
Our design brief is:

Write it clearly in your books.

Imagine your design. Sketch an image of it on the small pieces of plain paper, label the parts and answer the questions (on the next page) underneath.







Write the subheadings and details below:

About my moving object

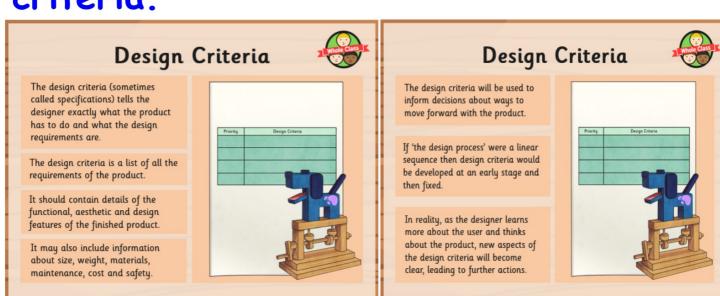
What will move and how?

Which cam/cams will I use to make it move?

What motion will this create?

Additional design features

To design, we need to use design criteria.



Complete design criteria sheets:

CAFQUES	Questions to Spar	k Ideas	Design Criteria 1	Design Criteria 2		
Customer	Who is the product intended for?					
Aesthetics	What appealing features	will it have?				
Function What are its functions?		CAFQUES	Questions to Spark Ideas	Design Criteria 1	Design C	disavia 2
		CAPQUES	Questions to Spark Ideas	Design Criteria 1	Design C	riteria 2
Ergonomics	How will the product reshape etc?	Quality	What design and manufacturing features will ensure a quality product?			
*		Usability	How easy is the product to use? Will a user guide be needed?			
		Environment	How will the product relate to the environment - recycling parts, materials used in manufacture, the manufacturing process?			
		Safety	How will you ensure that the product is safe?			

Design criteria question



REFLECT AND EVALUATE