

# Design & Technology - Product Design

Year 7

Topic: Investigation of a product

Task overview: Investigation of a graphic product; pop-up card or pop-up book.

Show an understanding of the materials used, manufacturing techniques and performance of the product.

Name:



DT group:

Tutor group:

Target level:

Deadline:

Week	Task	Success Criteria		Suggestions & Resources	Feedback	
1	Research an existing pop-up card or book	6	Detailed research with thorough analysis including labelling, how and why it works, technical terms and how it appeals to the user	You may have a pop-up book or card at home, if not you could borrow one from a local library or friend, or buy one from a book shop, charity shop or even a jumble sale!  Research words:  Paper engineer, pop-up mechanism, v-fold, parallelogram fold  Aesthetics = Appearance/looks		
	Produce evidence of the research and analyse your findings		5			Detailed research with analysis. I have labelled my product, explained how & why it works, used technical terms
	<i>Produce an image of your product</i>		4			Research with some analysis. I have labelled my product and tried to explain how it works
	<i>Label and annotate your image identifying key features</i>		3			Simple research with little or no analysis. I have labelled my product
2	<i>Explain why the aesthetic/performance properties are important to the user</i>	6	I have found out how pop-up cards and books are made and I have produced a detailed flow chart to explain the process used in industry	<a href="http://wonderopolis.org/home/wonder/how-are-pop-up-books-made/">http://wonderopolis.org/home/wonder/how-are-pop-up-books-made/</a>  <a href="http://www.madehow.com/Volume-7/Pop-Up-Book.html">http://www.madehow.com/Volume-7/Pop-Up-Book.html</a>  <a href="http://raymarshall.com/making-pop-ups/">http://raymarshall.com/making-pop-ups/</a>  <a href="http://www.markhiner.co.uk/producing.htm">http://www.markhiner.co.uk/producing.htm</a>  <a href="http://www.popuplady.com/about06-smithvideo.shtml">http://www.popuplady.com/about06-smithvideo.shtml</a>		
	Investigate how a pop-up card or a pop-up book is designed, manufactured and assembled		5			I have found out how pop-up cards and books are made and I have produced a detailed flow chart to explain the process
	<i>What are pop-up cards and books made from?</i>		4			I have found out how pop-up cards and books are made and I can explain the process in my own words
	<i>What tools are needed?</i>		3			I have found out how pop-up cards and books are made
	<i>How are they cut out and assembled in industry?</i>					
	<i>Produce a flow chart of how a pop-up card or book is made</i>					

Week	Task	Success Criteria		Suggestions & Resources	Feedback
3 & 4	Design and make your own pop-up card or book! <i>Choose a theme or a story to base your ideas on</i> <i>Sketch out some ideas</i> <i>Use youtube videos to guide you through the basic steps</i> <i>Test run the mechanism BEFORE decorating the card or book</i> <i>Have fun!</i>	6	I have made a successful and attractive pop-up card/book using several complex pop-up mechanisms	<a href="http://www.mr-d-n-t.co.uk/pop-up-mechanisms.htm">http://www.mr-d-n-t.co.uk/pop-up-mechanisms.htm</a> <a href="http://www.youtube.com/playlist?list=PL70E27F3163493CCA">http://www.youtube.com/playlist?list=PL70E27F3163493CCA</a> Ideas: Birthday, Christmas, wedding, get well soon, fairy tales, poem, a scene from a favourite book Use card to create the mechanisms Can draw or cut out images	
		5	I have made a successful and attractive pop-up card/book using a more complex pop-up mechanism		
		4	I have made a successful and attractive pop-up card/book using a basic pop-up mechanism		
		3	I have made a very simple pop-up mechanism with some decoration		
Ext	Research a professional pop-up card or pop-up book designer <i>Who are they?</i> <i>Where are they based?</i> <i>How long have they been a paper engineer?</i> <i>Examples of their work</i> <i>What motivates and influences them?</i> <i>What do you think of their work?</i>	6	Detailed research with thorough analysis. I have produced a biography on my chosen paper engineer, explaining why I chose them	Paper engineers: Robert Sabuda, Mark Hiner, Bruce Foster, Helen Hiebert, David Hawcock  <a href="http://hawcockbooks.co.uk/">http://hawcockbooks.co.uk/</a> <a href="http://www.marthastewart.com/918288/creating-pop-books-robert-sabuda">http://www.marthastewart.com/918288/creating-pop-books-robert-sabuda</a>	
		5	Detailed research with analysis. I have produced a biography on my chosen paper engineer, explaining why I chose them and		
		4	Research with some analysis. I have found out some basic information about a paper engineer together with examples of their work		
		3	Simple research with little or no analysis. I have found a paper engineer together with some examples of their work		

What my parents think about my work:

What I think about my work:

What my teacher thinks about my work:

Level:

Vivos: