Engineering		Evaluating Design Ideas Year 11					
Evaluation Models							
1	ACCESS FM	<b>ACCESS FM</b> is a design and technology framework used for analysing and evaluating products. It stands for represent?					
2	House of Quali (HOQ)	<b>The House of Quality (HOQ)</b> is a matrix-based tool used in Quality Function Deployment (QFD) to translate customer needs into technical requirements for product development.					
3	Pugh Chart	A Pugh chart, also known as a Pugh matrix or decision matrix, is a tool used to compare multiple options against a set of criteria, helping to identify the best choice.					
4	Quality Function Deployment (C						
5	Production Pla	<u> </u>					
6	Gantt Chart	A chart in which a series of horizontal lines shows the amount of work done or production completed in certain periods of time in relation to the amount planned for those periods.					
7	Evaluation	In production, <b>evaluation</b> is the process of systematically assessing the performance and impact of a product, service, or process to determine its effectiveness, efficiency, and value.					
8	Product Testin	<b>Product testing</b> is the process of evaluating a product's performance, quality, and usability before its release to the market.					
Diagr	ram						
9	Breadboard	A breadboard in electronics is a solderless platform used for prototyping and building temporary electronic circuits. It allows users to easily connect and disconnect components without soldering, making it ideal for experimenting with circuit designs and testing new ideas					
10	Card Modelling	Card modelling offers several benefits, including versatility, portability, ease of manipulation, and cost-effectiveness, making it a valuable tool for design exploration and prototyping. It allows designers to quickly and inexpensively create physical representations of their ideas, enabling better visualization, spatial understanding, and communication with stakeholders					

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11	3D Printing	3D printing offers numerous benefits, including faster prototyping, design flexibility, cost-effectiveness, and ondemand production. It allows for the creation of complex geometries, customization, and reduced waste compared to traditional manufacturing methods. Furthermore, 3D printing can be more environmentally friendly and accessible.	
12	Block Modellin	Blockboard is a great material for creating physical models of design ideas due to its strength, ease of working with, and relatively low cost. It's lightweight, making it easy to transport and handle, and its dimensional stability means models won't easily warp or bend. Additionally, blockboard can be cut, shaped, and joined using common woodworking tools, making it versatile.	
13	CAD Modelling	CAD software offers numerous advantages for modelling ideas, including improved accuracy, faster design iterations, better visualization, enhanced collaboration, and cost reduction. It enables designers to create precise 2D and 3D models, simulate designs, and easily make changes, leading to more efficient design processes and higher quality products.	
14	Vernier Callipe	Vernier Caliper is a widely used linear measurement instrument with the least count of 0.02 mm. It is used to measure linear dimensions like length, diameter, depth.  It is a basic instrument of measurement, consisting of two types of scale. The main scale and the Vernier scale can slide along the main scale. Two types of measurement we can do, the first one is through the external jaw (measure external dimensions) and another one is the internal jaw (measure internal	

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14	Micrometer	Outsid Micror It is us the cir	e Micrometer neter. ed to check the	e outside diameter of ns of the accuracy of
15	Steel rule	measuri indicate	s two units tha ion on one side	piece linear The steel scale t are cm and inches, e and inches, on
-	ords Vocabulary			
16	Subjective Evaluation	Subjective evaluation refers to assessments or judgments based on personal opinions, feelings, interpretations, or preferences, rather than on objective facts or measurable criteria. It involves individual perspectives and can vary from person to person.		
17	Objective Evaluation	Objective evaluation refers to assessments that are based on measurable, verifiable facts and data, rather than on personal opinions or biases. It emphasizes impartiality and consistency, aiming for judgments that would be similar regardless of who is making them		
18	Summative Evaluation	Summative evaluation is a method of assessment conducted at the end of a program, course, or project to measure its overall effectiveness and determine the extent to which objectives have been achieved.		
19	Ranking matrix	In the context of design, a ranking matrix is a tool used to prioritize or rank different design options or features based on their importance or effectiveness according to specific criteria. It helps designers make informed decisions by systematically comparing and evaluating alternatives.		
20	Qualitative data	Qualitative data is non-numerical information that describes characteristics and qualities. It focuses on concepts, opinions, and experiences, rather than numerical measurements or statistics. This type of data is often gathered through interviews, observations, and text-based sources, providing insights into the "why" and "how" behind phenomena		
21	Quantitative data	Quantitative data is numerical information often used for statistical analysis to understands. It differs from qualitative data qualities. Essentially, quantitative data subjected to mathematical calculations	ion that can be derstand quant which describe provides nume	ities, frequencies, and es characteristics or erical values that can be