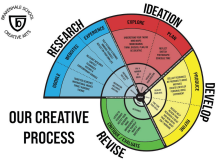




Year 7 3D Design Knowledge Organiser - Mondrian Clock Project

Key vocabulary	Definition	Key Concepts
1. Designed product	A designed product is an item, service, or digital experience created through a structured process to solve user problems, fulfill specific market needs, and align with business strategies. It goes beyond functionality to include aesthetics, usability, and user experience, ensuring the end result is useful, usable, and desirable.	1. Basic Google Slide Presentation / IT skills / Internet research
2. Functionality	The functionality of something is its usefulness, or how well it does the job it's meant to do. You might question the functionality of your new smartphone if you can't get it to send simple text messages.	2. Researching an Art and Design Movement (Neo-plasticism) and Artist (Piet Mondrian) for inspiration
3. Sculptural	"Sculptural in design" refers to objects, clothing, furniture, or buildings that are created with a strong emphasis on three-dimensional form, volume, structure, and artistic shape, rather than just functional or two-dimensional, decorative appeal. It implies that the item looks like a piece of art or sculpture, characterized by deliberate, often bold contours and a significant presence in space.	3. Developing and refining a design idea by following the Creative Process
4. Craftsmanship	The level of skill shown by somebody in making something beautiful with their hands.	4. Generating a series of initial design ideas through sketches and drawings which are clearly linked to artist research research
5. Aesthetic	Aesthetic is used to talk about beauty or art, and people's appreciation of beautiful things, products chosen for their aesthetic appeal as well as their durability and quality. Synonyms: ornamental, artistic, pleasing, pretty.	4.Using CAD/CAM to generate a digital 3D model
6. Inspiration	Inspiration in art is the motivating spark, emotional drive, or intellectual stimulus that compels an artist to create. It acts as a bridge between an idea and its physical realization, often arising from nature, emotions, experiences, or other art forms to spark, or "breathe life" into, a creative project.	5. Analysing existing products
7. Neoplasticism	Neoplasticism, or "the new plastic art" (<i>De Nieuwe Beelding</i>), is a Dutch abstract art movement founded in 1917 by Piet Mondrian and Theo van Doesburg. It represents universal harmony and order through a strict, reductive visual language using only black, white, gray, and primary colors (red, blue, yellow) arranged in vertical and horizontal lines.	6. Evaluating a prototype, mid-process
8. Abstract design	Abstract design is a non-representational style that uses shapes, colors, lines, and textures to evoke emotions, moods, or concepts rather than depicting literal objects.	7. Writing a final reflective written evaluation
9. Composition	Composition in art is the arrangement, placement, and organization of visual elements—such as shapes, lines, colors, and textures—within a work to create a cohesive, balanced, and engaging piece. It acts as the structural framework that guides the viewer's eye and influences the artwork's emotional impact.	8. Following Health and Safety instructions and demonstrating safe, confident use of tools and machines in a workshop
10. Mixed media	Mixed media art is a visual art form that combines two or more different materials, mediums, or techniques into a single artwork. Artists layer, combine, or assemble elements like paint, ink, collage, fabric, photography, and found objects to create textured, multi-dimensional pieces that transcend the boundaries of a single medium.	9. Demonstrating the correct application of a decorative finish to a product
11. Design revision	A design revision is a modification, update, or improvement made to a design concept after the initial draft, based on feedback	10. Assembling the components of a functional clock confidently and accurately
 <p>Basic research is defined as "a systematic study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind.</p> <p>Ideation is the process of forming ideas from conception to implementation, most often in a business setting. Ideation is expressed via graphical, written, or verbal methods, and arises from past or present knowledge, influences, opinions, experiences, and personal convictions.</p> <p>Design development is the process of creating and revising plans and specifications for a project, including architectural, mechanical, and electrical aspects. It's a crucial phase in the design process, where the design begins to take shape and represent the final product.</p> <p>Design revision is any change made to a design after the first draft is created. It can be as simple as changing a few pictures or major changes such as the correction of a design direction.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Elements of Design</p>  </div> <div style="text-align: center;"> <p>Neo-plasticism</p>  </div> </div>	

