

Digital DESIGN curriculum Overview

Year	Unit Title	Key Concept	Related Concept (s)	Global Context & Exploration	Statement of Inquiry	MYP Objectives	ATL Skills	Content
MYP1	Structure & Layout	Systems	Form	Scientific and Technical Innovation : Tools and Systems	Digital structures help organize information in meaningful ways, supporting effective communication through tools and systems explored under the global context of scientific and technical innovation.	A, B, C, D	Research: Use online tools to explore website structures. Thinking: Understand layout principles.	Manually coded webpage structure vs. AI-generated layouts
	Aesthetics & Style	Communication	Aesthetics	Personal and Cultural Expression : Design Elements	Visual design choices influence user experience and engagement, making communication a personal and cultural expression of style and creativity.	A, B, C, D	Thinking: Analyze color and style choices. Research: Compare AI-generated vs. human styling.	Manual CSS styling vs. AI-suggested styling decisions
	Responsive Web Design	Development	Function	Orientation in Space and Time: Digital Adaptability	Responsive design enhances accessibility and user experience across	A, B, C, D	Thinking: Develop responsive layouts. Research: Explore AI-driven	Hand-coded responsive designs using Flexbox and media queries vs. AI-assisted responsive structures

					devices, showing how communication evolves within the global context of orientation in space and time.		adaptability .	
	Interactive Elements	Communication	Function	Identities and Relationships: User Interaction	Interactive elements enhance user engagement in digital design, demonstrating how communication and function relate to identities and relationships through user interaction.	A, B, C, D	Thinking: Develop interactive components. Communication: Explain interactive design.	Manually coded navigation vs. AI-automated interactivity
	Digital Tools	Development	Innovation	Globalization and Sustainability: Digital Integration	Digital tools simplify design processes and enhance creativity, illustrating how development and innovation contribute to globalization and sustainability through digital integration.	A, B, C, D	Research: Explore AI-powered design tools. Thinking: Compare manual vs. automated workflows.	Canva/manual design vs. AI-powered design generation

	Purpos eful Design	Communi ties	Perspecti ve	Fairness and Developm ent: Inclusive Design	Structured design communicate s a clear purpose, combining community perspective and fairness within the global context of inclusive design.	A, B, C, D	Organizatio n: Plan website layouts. Critical Thinking: Compare AI-driven structured layouts vs. manual design.	Custom site layout vs. AI-structured templates
Myp2	Advan ced Structu re	Develop ment	Perspecti ve, Function	Personal and Cultural Expression : Design Reflecting Identity	Web and graphic design help express personal or cultural identity through structure and visual elements, showing how development connects to function and perspective within personal and cultural expression.	A, B, C, D	Organizatio n: Organize content effectively. Communic ation: Create functional and appealing designs. Collaborati on: Peer review and critique.	Exploring AI's role in content organization
	Visual Compo sition	Develop ment	Aestheti c, Composi tion	Personal and Cultural Expression : Aesthetic Choices	Visual composition conveys narratives and emotions, reflecting cultural contexts and highlighting	A, B, C, D	Thinking: Apply typography and color theory. Research: Analyze AI-generat ed layouts.	Typography, color theory, AI-generated layouts

					development through aesthetic choices within personal and cultural expression.			
	Interactivity & Function	Development	Function, User Experience	Scientific and Technical Innovation : Interactive Technology	Interactive designs enhance user engagement and functionality, exemplifying development and innovation within the global context of scientific and technical innovation.	A, B, C, D	Critical Thinking: Implement JavaScript basics. Research: Explore AI-driven interactivity.	JavaScript basics, AI-driven interactivity
	Responsive Design	Development	Adaptation, Flexibility	Orientation in Space and Time: Digital Evolution	Responsive design adapts to various devices, ensuring consistent user experiences, showing how development, adaptation, and flexibility reflect digital evolution.	A, B, C, D	Thinking: Develop adaptive layouts. Research: Utilize AI-powered responsive frameworks.	AI-powered adaptive layouts
	Perspective in Design	Development	Culture, Interpretation	Identities and Relationships: Cultural Perspectives	Design perspectives are influenced by cultural backgrounds and personal	A, B, C, D	Research: Investigate cultural design elements. Communication:	Cultural design choices, AI-generated themes

					experiences, highlighting development and interpretation through identities and relationships.		Incorporate diverse themes.	
	Static vs. Dynamic Design	Development	Change, Innovation	Globalization and Sustainability: Technological Advancements	The shift from static to dynamic design reflects technological progress and changing user needs, showing how change and innovation shape globalization and sustainability.	A, B, C, D	Critical Thinking: Evaluate design methodologies. Research: Assess AI automation in design.	Exploring AI automation in design
Myp3	Dynamic Web Systems	Systems	Function, Integration	Scientific and Technical Innovation : Web Evolution	Web design systems evolve to integrate frontend and backend technologies, enhancing user interaction and reflecting function and integration within scientific and technical innovation.	A, B, C, D	Critical Thinking: Integrate frontend with backend. Research: Study system architectures.	AI-assisted backend logic
					Effective UX/UI			

	User Experience & Interface	Communication	User Experience, Design	Personal and Cultural Expression : User-Centric Design	design prioritizes user needs and cultural contexts, reflecting communication, user experience, and design within personal and cultural expression.	A, B, C, D	Research: Analyze user behaviors. Communication: Design intuitive interfaces.	AI-generated UI recommendations
	Forms & Authentication	Relationships	Security, Function	Fairness and Development: Data Protection	Secure forms and authentication systems are vital for user trust and data integrity, showing how relationships, function, and fairness align with data protection.	A, B, C, D	Critical Thinking: Implement authentication protocols. Research: Explore AI-enhanced security measures.	AI-enhanced authentication systems
	Logic & Function	Logic	Logic, Problem-Solving	Scientific and Technical Innovation : Algorithmic Thinking	Logical structures underpin functional and efficient web solutions, emphasizing logic and problem-solving in the context of scientific and technical innovation.	A, B, C, D	Thinking: Develop problem-solving skills. Research: Compare coding approaches.	AI-generated vs. human coding solutions
	Evolution of Systems	Change	Adaptation, Progress	Orientation in Space and Time: Technological	Technological advancements drive the	A, B, C, D	Research: Trace technological	AI's role in technological advancements

				cal Progress	evolution of web systems and user interactions, highlighting change, adaptation, and progress within orientation in space and time.		developments. Critical Thinking: Assess AI's role in innovation.	
	AI in Interaction	Innovation	Personalization, Ethics	Identities and Relationships: Human-AI Interaction	AI-powered personalization transforms user experiences and raises ethical considerations, reflecting innovation and ethics within identities and relationships.	A, B, C, D	Research: Investigate AI personalization techniques. Communication: Discuss ethical implications..	AI-driven personalized user experiences
Myp4	Interactive & Animated Elements	Creativity	Aesthetics, Movement	Personal and Cultural Expression : Digital Storytelling	Animation and interactivity enhance storytelling in digital media, showcasing creativity, aesthetics, and movement within personal and cultural expression.	A, B, C, D	Thinking: Design engaging animations. Research: Explore AI-generated animations.	CSS animations, AI-generated animations

	Brand Identity	Identity	Perception, Representation	Identities and Relationships: Brand Perception	Brand identity shapes how audiences perceive and relate to organizations, emphasizing identity, perception, and representation within the global context of identities and relationships.	A, B, C, D	Social: Collaborate on brand development. Research: Investigate branding strategies.	AI-generated vs. human-created branding
	API & Data Integration	Connections	Data Management, Functionality	Scientific and Technical Innovation : Data Connectivity	Integrating APIs enhances functionality and user experience in web design, highlighting connections, data management, and functionality through scientific and technical innovation.	A, B, C, D	Research: Study API integration methods. Thinking: Implement data-driven features.	AI-driven data visualization
	Social & Ethical Design	Communities	Ethics, Impact	Fairness and Development: Ethical Implications	Design choices have social and ethical impacts on communities, revealing how communities, ethics, and impact relate to fairness	A, B, C, D	Communication: Discuss ethical design. Research: Analyze AI's influence on design ethics.	Impact of AI on branding ethics

					and development.			
	AI vs. Human Creativity	Perspective	Innovation, Comparison	Scientific and Technical Innovation : Creative Processes	Comparing AI and human creativity offers insights into the design process, showcasing perspective, innovation, and comparison within scientific and technical innovation.	A, B, C, D	Critical Thinking: Evaluate creative outputs. Research: Examine AI's role in creativity.	Comparing AI branding with human design
	Evaluating Dynamic Experiences	Development	Feedback, Improvement	Globalization and Sustainability: User Engagement	Continuous evaluation enhances dynamic user experiences in a global context, focusing on development, feedback, and improvement within globalization and sustainability.	A, B, C, D	Thinking: Assess user feedback. Research: Refine AI-assisted design strategies.	Refining AI-assisted branding strategies
Myp5	Personal Branding	Identity	Perception, Self-expression	Identities and Relationships: Personal Branding Dynamics	Understanding and developing personal branding allows individuals to express their identity and	A, B, C, D	Self-management: Reflect on personal strengths and areas for growth. Communication:	Exploring AI-enhanced branding techniques

					values effectively, showing identity, perception, and self-expression within identities and relationships.		Articulate personal brand narratives.	
	Portfolio Development	Development	Innovation, Presentation	Personal and Cultural Expression : Showcasing Creativity	Creating a comprehensive portfolio showcases personal growth and creative achievements , reflecting development, innovation, and presentation within personal and cultural expression.	A, B, C, D	Organization: Plan and structure portfolio content. Thinking: Critically select works that represent personal development.	AI-powered portfolio optimization tools
	Backend & Data Management	Systems	Data Analysis , Security	Scientific and Technical Innovation : Data Systems	Effective backend systems and data management are crucial for secure and efficient digital platforms, emphasizing systems, data analysis, and security within scientific and technical innovation.	A, B, C, D	Research: Investigate data management practices. Critical Thinking: Implement secure data handling procedures.	AI-driven data analytics and management

	Machine Learning & Web Integration	Innovation	Functionality, Adaptation	Scientific and Technical Innovation : AI in Web Development	Integrating machine learning into web design leads to adaptive and intelligent user experiences, highlighting innovation, functionality, and adaptation within scientific and technical innovation.	A, B, C, D	Research: Explore machine learning applications. Thinking: Develop strategies for AI integration in web platforms.	Implementing AI applications in web development
	AI & Automation in Design	Change	Efficiency, Ethics	Fairness and Development: Automation's Societal Impact	The rise of AI and automation in design transforms creative processes and raises ethical considerations, focusing on change, efficiency, and ethics within fairness and development.	A, B, C, D	Communication: Discuss the ethical implications of AI in design. Thinking: Evaluate the balance between automation and human creativity.	Developing AI-powered digital experiences
	Final Innovation Challenge	Creativity	Problem-solving, Synthesis	Globalization and Sustainability: Future-ready Design Solutions	Designing innovative projects that integrate AI and web technologies addresses global challenges sustainably, highlighting creativity,	A, B, C, D	Collaboration: Work effectively in teams to develop solutions. Thinking: Synthesize knowledge from various domains to	Building AI-integrated, future-ready projects

					problem-solving, and synthesis within globalization and sustainability.		create comprehensive projects.	
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