

YEAR 5 - DESIGN

unit no.	Unit title	Time	Key concept	related concept	global context	Statement of Inquiry	Objectives	ATL skills	Content	Resources
1	Space Exploration (interdisciplinary)	6 weeks 12 lessons 12 hours	Change	Adapting, Inventions	Scientific and Technical Innovation	Over time, space exploration helped change civilizations leading to the development of scientific and technological innovations.	INQUIRING AND ANALYZING	Research skills- information literacy, media literacy Thinking skills- critical thinking, creative thinking, Communication skills- communication	Developing Ideas → Discussing colours, pamphlet design, transparency. Layout structures of pamphlets. → What kind of inventions have been created through space exploration? → How can inventions be linked to science or mathematics? → What are the different issues in space? Space Colonization, Space Debris, etc...	Youtube Videos Powerpoint Slides NASA Website NASA Problem Chart www.canva.com
2	Coding World	Weeks 8 lessons 16 hours 15	Logic/Creativity	Function	Scientific and Technical Innovation	Coding requires defining functions with a set of logical and creative statements.	A - Analyzing and Inquiring B - Developing Ideas C – Creating the solution D -Evaluating	Thinking Skills Collaboration Skills	Computer Science 2 (PYTHON) Conditional Statements (IF, ELSE) Nested Conditionals, Functions and events Checking expressions, executing default code, put one conditional into another conditional, saving code for later..	Youtube Videos Powerpoint Slides CodeCombat website

3	Business Unit	Weeks 8 lessons 16 hours 15	Development	Markets, Creativity	Scientific and Technical Innovation	In order to develop successful business, owners must analyze markets in a creative way.	A - ANALYZE AND INQUIRING B - DEVELOPING IDEAS C - CREATING THE SOLUTION	Thinking skills Communication Skills Research Skills	Company Name, Summary, Form of Ownership, Location, Marketing plan, Business Goals and Objectives. Why write a business plan? Researching your business plan(marketing, advertising, target population and competitors) Describing your vision and mission statement. Creating budgets for your startup costs. Using Canva to create our logos. Advertising - how will you advertise your company? Talking about newspapers, internet, television, etc... Global Context - how do we make our ideas sustainable and think about the environment?	Tech Twins Videos Powerpoint Slides Videos(Kahoot Game) https://create.kahoot.it/v2/details/94b25fe5-f90f4560-a66b-0e71dece0a2c https://www.youtube.com/watch?v=Fqch5OrUPvA (Business Plan)
4	Inventions of the World	Weeks 5 lessons 10 hours 10	Creativity	Adapting Invention Innovation	Scientific and Technical Inno vation	Innovative and creative products can be developed by adapting inventions.	A - Analyzing and Inquiring B - Developing Ideas C – Creating the solution D -Evaluating	Critical Thinking - Gather and organize relevant information to formulate an argument -Consider ideas from multiple perspectives -Identify obstacles and challenges -Troubleshoot systems and applications Creativity and Innovation: - Use brainstorming and mind mapping to generate new ideas and inquiries	Inventions/Innovation lesson Design Cycle in steps Identifying Problems How to research problems, and figuring out what are the issues. Developing Ideas How we can come up with creative and innovative ideas. Creating the solution How do we create feasible designs? Evaluating the Product How do we test? How to research technical solutions. Success and challenges of technical solutions. Adapting Inventions Presentations	Powerpoint slides Video on Inventions(Youtube) Inventions Wheel Guide PDF, Nike Adaptation Video on Shoes, Elon Musk Testing Video

4	Sports day	6 weeks 12 lessons 12 hours	Communities Creativity	Collaboration	Personal and Cultural Expression	Planning events requires communities to creatively collaborate with one another	A - Analyzing and Inquiring B - Developing Ideas C – Creating the solution D -Evaluating	Communication Skills Thinking Skills Reflection Skills	What is event planning? What are communities? What do communities do? Event Planning Researching Games The importance of collaboration among communities. What is sports day? Sports Day Task Allocation Design Game Lesson Design Schedule Lessons Design Budget Lessons	Sports Day Powerpoint Slides Generating TimeTables through Excel. Videos on Sports Day events Event Planning Video/Package.
5	The legacy Movement	Weeks 8 lessons 16 hours 15	Perspective	Markets and Trends	Fairness and development	Researching markets and trends gives us new perspectives on our business plans	A - Analyzing and Inquiring B - Developing Ideas C – Creating the solution D -Evaluating	Research Skills Thinking Skills	What are markets? What are the trends? How are markets and trends related? Short Story: Market Research Analyst What do they do? What is their job? Building Business Plan: Executive Summary Company Description Market Analysis Organizational Chart Financial Chart Identifying the problem? What are you trying to solve? Who will your business help? Lesson:	Market Youtube Video, Business Slides, Big Pharama PDF Package, Variety of Books on Business Markets