



### GRADE 7 OVERVIEW DESIGN

Unit Title and Teaching hours	Key Concept	Related Concepts	Global Context	Statement of inquiry	Objectives	ATL Skills	Brief description of content
<b>Halloween Costumes (9 hours)</b>	Communities	Resources, Sustainability	Personal and cultural expression	Creating new seasonal products by upcycling old resources is an environmental friendly way to celebrate and bond communities.	A (i), B (i, ii, iii) C (iii)	Communication skills Organization skills Information literacy skills Creative-thinking skills	<u>Possible interdisciplinary connections :</u> Arts <u>Knowledge :</u> Sewing, Internet Research <u>Resources :</u> Computers, Internet, Sewing machines, old fabrics, Image editors, word processor <u>Design situation :</u> A Halloween costume is worn only a few times in its lifetime. Create an environment friendly Halloween costume by using recycled fabric helps both the planet and allows people to celebrate respecting their traditions.
<b>Original Happy New Year (10 hours)</b>	Communication	Form, Innovation	Scientific and technical innovation	With the rise of new information and communication techniques, many traditions have lost their impact, innovation could make them more memorable.	B (iv) C (ii,iii,iv)	Creative-thinking skills Generating novel ideas and considering new perspectives Design improvements to existing machines, media and technologies ; Make guesses, ask “what if” questions and generate testable hypotheses	<u>Possible interdisciplinary connections :</u> <u>Knowledge :</u> Arduino programming, basic electronics <u>Resources :</u> Arduino, electronic supplies, computer, Arduino book <u>Design situation :</u> Design a new arduino project to wish a happy new year in an original way.



<b>Blog creation (9 hours)</b>	Systems	Markets and trends, Ergonomics	Fairness and development	Sharing useful content instead of showing of is a much healthier and meaningful way to use ICT tools	A	Communication skills Exchanging thoughts, messages and information effectively through interaction Use a variety of media to communicate with a range of audience Reading, writing and using language to gather and communicate information Write for different purposes Read a variety of sources for information and for pleasure	<u>Possible interdisciplinary connections :</u> <u>Knowledge :</u> create tutorials, describe a process, <u>Resources :</u> Computer, Internet, blog platform, word processor, digital drawing <u>Design situation :</u> Create a blog to share the work you did in design or any other work
<b>Serious Game design (9 hours)</b>	Development	Evaluation, Adaptation	Identities and relationships	Learning by playing is a very powerful tool when you need to teach attractless skills knowledge	D	Creative-thinking skills Apply existing knowledge to generate new ideas, products or processes; Create original works and ideas; use existing works and ideas in new ways	<u>Possible interdisciplinary connections :</u> <u>Knowledge :</u> game design, ICT vocabulary, <u>Resources :</u> Computer, Internet, Cardboard, art supplies <u>Design situation :</u> Design a game which will help kids from 8 to 10 years old use the correct words to name the tools of our digital world.
<b>Scratch game design (15 hours)</b>	Development	Perspective, Function	Globalization and sustainability	Coding video games is the first step to understand how computers work and become well-informed users	ABCD	Creative-thinking skills Apply existing knowledge to generate new ideas, products or processes; Design new machines, media and technologies; Make unexpected or unusual connections between objects and/or ideas	<u>Possible interdisciplinary connections :</u> <u>Knowledge :</u> game addiction strategies, planned obsolescence, coding skills <u>Resources :</u> Computer, scratch software, scratch cards, presentation tool <u>Design situation :</u> Design an unfair game that you could never win but makes you feel that if you keep trying or if you pay for add-ons, you could maybe win.