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| **Unit title** | **Key concept** | **Related concepts** | **Global context** | **Statement of inquiry** | **MYP subject group objectives** | **ATL skills** | **Content (topics, knowledge, skills)** |
| Architectural forms and development of fine motor skills  PreMYP | Time, place and space Culture | Adaptation resources | Identities and relationship | Influenced by Architectural structures to develop the fine motor skills, precision using collage technique. | A: i, ii, iv  B: i, ii, iii, iv  C: ii  D: i, ii, iii, iv | Research and  Investigation  Skills  Problem  solving and  thinking skills | Learning to compare periods of Art history, improving the technical skills and fine motor skills by using ruler and sizzors. |
| Masks  MYP 1 | Culture | Form | Personal and cultural expressions | Societies around the world express their values and beliefs in a variety of visual cultures. | A: iii , iv  B: i, ii, iii  C: ii, iv  D: ii, iii | Research and  Investigation  Skills,  Reflection | About different cultures masks, plaster casting, clay form, negative shape |
| Ceramic design of mosaic on theme: “my family”  MYP2 | Relationships | Form  Innovation | Identity and relationships | Value of ceramic mosaic in history of art and design of ceramic mosaic on the theme:” my family”. | A: i, ii, iii , iv  B: i, ii, iii, iv  C: i, ii, iii, iv  D: i, ii, iii, iv | Creative thinking skills  Self-management  Research skills | Process of making mosaic from sketches, technical proposal to actual work with clay and final glazing. |
| Design a functional product from recycled material  MYP4 | Form | Function  Ergonomics  sustainability | Globalisation and sustainibility | Design a functional product from recycled material/ plastic or paper. | A: i, ii, iii , iv  B: i, ii, iii, iv  C: i, ii, iii, iv  D: i, ii, iii, iv | Critical thinking skills  Creative thinking skills  Selfmanagment | Learn to accomplish design solution and estimate objectively skills of student themselves from sketches to the final design. |
| A Hat  MYP 3 | Communication | Invention  Form | Fairness and development | The Hat makes a man. | A: i, ii, iii  B: i, ii, iv  C: ii, iii, iv  D: ii, iii | Organization skills  Problem  solving and  thinking skills | History of a hats design, 3D forms, design drawing, paper work |
| Wall tile for architecture inspired by particular Bauhaus artist  MYP5 | Aestetics | Adaptation Innovation | Orientation in time and space | Design a tile for a wall aimed to be a part of an architectural space influenced by work of an artist acting at Bauhaus. | A: i, ii, iii , iv  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Organization skills,  Reflection skills  Markets and trends | Design process thinking based on comprehensive reasearch, analyze of artist, sketches, design proposal, making of the final tile from plaster and visualization in architectural space. |
| Am I a Good Presenter?  pMYP | Communication | Form  Evaluation  Invention | Personal and cultural expression | Students will understand basic presentation’s rules/criterions. They’ll evaluate presentations and suggest changes. | A: i, ii, iii , iv  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Creative thinking, Critical thinking,  Research, Self management | The idea of presentations – why we are using them,  Parts of presentations, Presenting |
| Educational application  pMYP | Development | Form  Evaluation  Invention | Personal and cultural expression | Still will learn how to resolve a problem. They will understand basic concept of programming and algorithm and they will create meaningful and useful educational application. | A: i, ii, iii, iv  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Creative thinking, Critical thinking,  Self management | Algorithm  Instructions  Manuals  Python |
| Shapes are Everywhere  MYP 1 | Systems | Innovation  Invention  Form  Adaptation | Personal and cultural expression | Students will understand main principle of drawing, bitmap and vector graphics. | A: i, ii, iii, iv  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Creative thinking, Critical thinking,  Research, Self management | Vector and bitmap graphics,  Vector tools,  Bitmap tools,  Project,  Vector and bitmap graphics,  Vector editors,  Tools, |
| This is my computer! And what does this key do?  MYP 1 | Communication | Evaluation  Invention  Perspective | Scientific and technical innovation | Introduction to computers include basic information about computers, parts and types of commputers and about basic work in operating system. | A: i  B: i  C: i, ii  D: i, ii, iii | Thinking skills, Communication skills,  Research skills | Parts of computer,  Technical parts of computers,  Types of computers,  Files and directories,  Shortcuts,  Short history of computers, and important people in computer science |
| Programming with Python turtle  MYP 2 | Logic | Evaluation  Innovation  Invention | Scientific and technical innovation | Students will learn how to use Python turtle, using IDLE programming enviroment and they will learn basic algorithms. Using symple turtle commands, they will gradually learn to use basic Python commands. | A: i  B: i, ii  C: ii, iii, iv, v  D: ii | Creative thinking,  Communication skills | Python IDLE, module turtle  Using python turtle to draw shapes, using basic python commands,  loop, nested loops  conditions |
| Do you see and do you hear?  MYP 2 | Creativity | Collaboration  Form  Invention | Personal and cultural expression | Students will learn basic theoreticall information about audio and video. They will create final project. | A: i, ii, iii, iv  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Creative thinking, Critical thinking,  Social skills,  Self management | GIMP,  Raster graphics,  Vector graphics,  Inkscape,  Audacity,  Video editor,  iMovie(optional) |
| Promote yourself or company online  MYP 3 | Communication | Form  Evaluation  Invention | Scientific and technical innovation | Students will learn, why online presenting is important (especially nowadays). They will learn which form we can use and they will be able to create simple webpage. | A: i, ii, iii, iv  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Self management,  Communication,  Research | HTML,  CSS,  JavaScript(optional) |
| Let´s create your own program part 1  MYP 3 | Development | Invention  Innovation  Evaluation  Adaptation | Scientific and technical innovation | Students will learn first higher programming language. They will use knowledge from previous programming languages (Imagine, Karel). | A: i, ii, iii  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Thinking, critical thinking,  Problem solving,  Self management,  Communication | Environment  Input  Variables  Calculating  Round  Loop  Random  Tkinter  Buttons and functions  GUI |
| Let´s create your own program part 2  MYP 4 | Development | Invention  Innovation  Evaluation  Adaptation | Scientific and technical innovation | Students will learn first higher programming language. They will use knowledge from previous chapters about programming, they will transfer their algorithmic thinking into a new applications. Final product – Caesar cipher. | A: i, ii, iii  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Thinking, critical thinking,  Problem solving,  Self management,  Communication | Conditions  String  List  Text file  Other components and libraries |
| Cells...am I in a Prison?  MYP 4 | Form | Adaptation  Form  Markets and trends | Scientific and technical innovation | Main focus is on data and statistics. Students will work with various types of data and they will use new functions adn tools in spreadsheets. | A: i, ii, iii, iv  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Research, critical thinking,  Self management | Comparison between word and spreadsheet,  Comparison between commercial and free software,  Functions and tools in spreadsheets |
| The soul and body of a computer  MYP 5 | Development | Evaluation Innovation Markets and trends | Scientific and technical innovation | Students will know differencies between system software and applications. They will know how to evaluate an application, what kind of licences do we have. Students will understand how computer works and how can we improve its capacity. | A: i, ii, iii, iv  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Research skills,  Communication skills,  Self management skills,  Thinking skills | Basic terms – software, program,  Operating system (software), Application software,  Malware,  Hardware, definition, division,  Input and output devices,  Components and devices |
| New trends in IT  MYP 5 | Change | Invention  Innovation  Adaptation  Markets and Trends | Scientific and technical innovation | Students will learn some of new trends in IT. They will programme application for smartphones, they will use wordpress for their web pages and they will know about current new devices or softwares. | A: i, ii, iii  B: i, ii, iii, iv  C: i, ii, iii, iv, v  D: i, ii, iii, iv | Self management,  Communication,  Research | Conditions  String  List  Text file  Other components and libraries |