

Key Concepts

Key concepts promote the development of a broad curriculum. They represent big ideas that are both relevant within and across disciplines and subjects. For Design these are **communication, communities, development** and **systems**.

Aesthetics	Change	Communication	Communities
Connections	Creativity	Culture	Development
Form	Global interactions	Identity	Logic
Perspective	Relationships	Systems	Time, place and space

Global Context

Teaching and learning in the MYP involves understanding concepts in context. Global contexts provide a common language for powerful contextual learning, identifying specific settings, events or circumstances that provide more concrete perspectives for teaching and learning. When teachers select a global context for learning, they are answering the following questions.

- Why are we engaged in this inquiry?
- Why are these concepts important?
- Why is it important for me to understand?
- Why do people care about this topic?

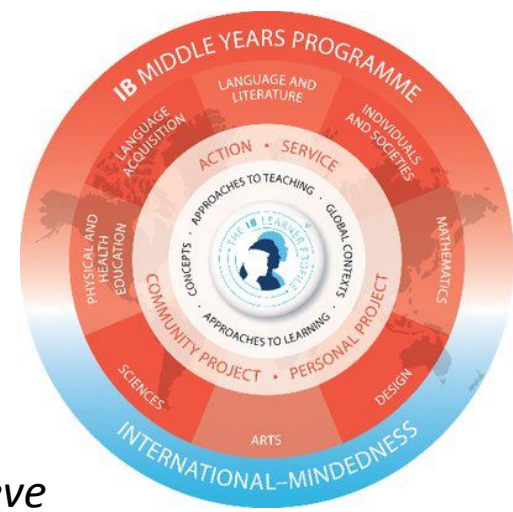
MYP Design can develop meaningful explorations of:

- identities and relationships • orientation in space and time • personal and cultural expression • scientific and technical innovation • globalization and sustainability • fairness and development

Related Concepts

Related concepts promote deep learning. They are grounded in specific disciplines and are useful for exploring key concepts in greater detail. Inquiry into related concepts helps students develop more complex and sophisticated conceptual understanding. There are 12 related concepts for Design.

Related concepts in design		
Adaptation	Collaboration	Ergonomics
Evaluation	Form	Function
Innovation	Invention	Markets and trends
Perspective	Resources	Sustainability



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IT: Curriculum and Assessment overview

Criterion A	Criterion B	Criterion C	Criterion D
Inquiring and analysing	Developing ideas	Creating the solution	Evaluating

Year 7

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Topic: Introduction to School Network / Applied Digital Skills	Topic: Applied Digital Skills	Topic: eSafety Graphics Project	Topic: eSafety Graphics Project	Topic: Scratch Project	Topic: Scratch Project
Assessment: A	Assessment: A, C, D	Assessment: A & B	Assessment: C & D	Assessment: A & B	Assessment: C & D

Year 8

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Topic: Introduction to School Network / Applied Digital Skills	Topic: Applied Digital Skills	Topic: Python Programming Project	Topic: Python Programming Project	Topic: Graphics Project - Magazine Cover	Topic: Graphics Project - Magazine Cover
Assessment: A	Assessment: A, C, D	Assessment: A & B	Assessment C & D	Assessment: A & B	Assessment: C & D

Year 9

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Topic: Creating A Brand Identity	Topic: Creating an eCommerce Website	Topic: Cyber Security	Topic: Algorithms project	Topic: Algorithms project	Topic: Graphics Project
Assessment: A & D	Assessment: B, C, D	Assessment: A, B, C, D	Assessment: A & B	Assessment: C & D	Assessment: A & B

Resistant Materials: Curriculum and Assessment overview

Criterion A	Criterion B	Criterion C	Criterion D
Inquiring and analysing	Developing ideas	Creating the solution	Evaluating

Year 7

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Additional curriculum time provided for English and Maths recovery		Topic: Charity Box	Topic: Charity Box	Topic: Charity Box	Topic: LAT Assessment
		Assessment: A, B	Assessment: B, C	Assessment: C, D	Assessment: A, B, C, D

Year 8

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Additional curriculum time provided for English and Maths recovery		Topic: Charity Box	Topic: Charity Box	Topic: Charity Box	Topic: LAT Assessment
		Assessment: A, B	Assessment: B, C	Assessment: C, D	Assessment: A, B, C, D

Year 9

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Additional curriculum time provided for English and Maths recovery		Topic: Charity Box	Topic: Charity Box	Topic: Charity Box	Topic: LAT Assessment
		Assessment: A, B	Assessment: B, C	Assessment: C, D	Assessment: A, B, C, D

Food Technology: Curriculum and Assessment overview

Criterion A	Criterion B	Criterion C	Criterion D
Inquiring and analysing	Developing ideas	Creating the solution	Evaluating

Year 7

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Additional curriculum time provided for English and Maths recovery		Topic: Healthy Eating - Global cafe	Topic: Healthy Eating - Global cafe	Topic: Healthy Eating - Global cafe	Topic: LAT Assessment
		Assessment: A, B	Assessment: B, C	Assessment: C, D	Assessment: A, B, C, D

Year 8

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Additional curriculum time provided for English and Maths recovery		Topic: International cafe	Topic: International cafe	Topic: International cafe	Topic: LAT Assessment
		Assessment: A, B	Assessment: B, C	Assessment: C, D	Assessment: A, B, C, D

Year 9

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Additional curriculum time provided for English and Maths recovery		Topic: Scientific Investigations	Topic: Scientific Investigations	Topic: Scientific Investigations	Topic: LAT Assessment
		Assessment: A, B	Assessment: B, C	Assessment: C, D	Assessment: A, B, C, D

Design (IT, RM & Food Technology) Subject Guide

Year 7 & 8 Assessment Criteria

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Year 7 & 8 Grading

In the MYP, subject group objectives correspond to assessment criteria. Each criterion has eight possible achievement levels (1–8), divided into four bands that generally represent:

limited (1–2); adequate (3–4); substantial (5–6); and excellent (7–8) performance.

The scores for each of the four criteria are added together and a final Grade is awarded.

1	2	3	4	5	6	7
1-5	6-9	10-14	15-18	19-23	24-27	28-32

level	Level Descriptor			
	Criterion A: Inquiring and analysing	Criterion B: Developing ideas	Criterion C: Creating the solution	Criterion D: Evaluating
0	The student does not reach a standard described by any of the descriptors below	The student does not reach a standard described by any of the descriptors below.	The student does not reach a standard described by any of the descriptors below	The student does not reach a standard described by any of the descriptors below
1–2	The student: i. states the need for a solution to a problem ii. states the findings of research.	The student: i. states one basic success criterion for a solution ii. presents one design idea, which can be interpreted by others iii. creates an incomplete planning drawing/diagram.	The student: i. demonstrates minimal technical skills when making the solution ii. creates the solution, which functions poorly and is presented in an incomplete form.	The student: i. defines a testing method, which is used to measure the success of the solution ii. states the success of the solution
3-4	The student: i. outlines the need for a solution to a problem ii. states some points of research needed to develop a solution, with some guidance iii. states the main features of an existing product that inspires a solution to the problem iv. outlines some of the main findings of research	The student: i. states a few success criteria for the solution ii. presents more than one design idea, using an appropriate medium(s) or labels key features, which can be interpreted by others iii. states the key features of the chosen design iv. creates a planning drawing/diagram or lists requirements for the creation of the chosen solution.	The student: i. lists the main steps in a plan that contains some details, resulting in peers having difficulty following the plan to create the solution ii. demonstrates satisfactory technical skills when making the solution iii. creates the solution, which partially functions and is adequately presented iv. states one change made to the chosen design or plan when making the solution.	The student: i. defines a relevant testing method, which generates data, to measure the success of the solution ii. states the success of the solution against the design specification based on the results of one relevant test iii. states one way in which the solution could be improved iv. states one way in which the solution can impact the client/target audience.
5-6	The student: i. explains the need for a solution to a problem ii. states and prioritizes the main points of research needed to develop a solution to the problem, with some guidance iii. outlines the main features of an existing product that inspires a solution to the problem iv. outlines the main findings of relevant research.	The student: i. develops a few success criteria for the solution ii. presents a few feasible design ideas, using an appropriate medium(s) and labels key features, which can be interpreted by others iii. presents the chosen design stating the key features iv. creates a planning drawing/diagram and lists the main details for the creation of the chosen solution.	The student: i. lists the steps in a plan, which considers time and resources, resulting in peers being able to follow the plan to create the solution ii. demonstrates competent technical skills when making the solution iii. creates the solution, which functions as intended and is presented appropriately iv. states one change made to the chosen design and plan when making the solution.	The student: i. defines relevant testing methods, which generate data, to measure the success of the solution ii. states the success of the solution against the design specification based on relevant product testing iii. outlines one way in which the solution could be improved iv. outlines the impact of the solution on the client/target audience, with guidance.
7-8	The student: i. explains and justifies the need for a solution to a problem ii. states and prioritizes the main points of research needed to develop a solution to the problem, with minimal guidance iii. describes the main features of an existing product that inspires a solution to the problem iv. presents the main findings of relevant research.	The student: i. develops a list of success criteria for the solution ii. presents feasible design ideas, using an appropriate medium(s) and outlines the key features, which can be correctly interpreted by others iii. presents the chosen design describing the key features iv. creates a planning drawing/diagram, which outlines the main details for making the chosen solution.	The student: i. outlines a plan, which considers the use of resources and time, sufficient for peers to be able to follow to create the solution ii. demonstrates excellent technical skills when making the solution iii. follows the plan to create the solution, which functions as intended and is presented appropriately iv. lists the changes made to the chosen design and plan when making the solution.	The student: i. outlines simple, relevant testing methods, which generate data, to measure the success of the solution ii. outlines the success of the solution against the design specification based on authentic product testing iii. outlines how the solution could be improved iv. outlines the impact of the solution on the client/target audience.

Design (IT, RM & Food Technology) Subject Guide

Year 9 Assessment Criteria

Together we inspire, learn and achieve

Year 9 Grading

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1	2	3	4	5	6	7
1-5	6-9	10-14	15-18	19-23	24-27	28-32

level	Level Descriptor			
	Criterion A: Inquiring and analysing	Criterion B: Developing ideas	Criterion C: Creating the solution	Criterion D: Evaluating
0	The student does not reach a standard described by any of the descriptors below	The student does not reach a standard described by any of the descriptors below.	The student does not reach a standard described by any of the descriptors below	The student does not reach a standard described by any of the descriptors below
1–2	The student: i. states the need for a solution to a problem ii. states some of the main findings of relevant research.	The student: i. lists a few basic success criteria for the design of a solution ii. presents one design idea, which can be interpreted by others iii. creates incomplete planning drawings/diagrams.	The student: i. demonstrates minimal technical skills when making the solution ii. creates the solution, which functions poorly and is presented in an incomplete form.	The student: i. describes a testing method, which is used to measure the success of the solution ii. states the success of the solution
3–4	The student: i. outlines the need for a solution to a problem ii. states the research needed to develop a solution to the problem, with some guidance iii. outlines one existing product that inspires a solution to the problem iv. develops a basic design brief, which outlines some of the findings of relevant research	The student: i. constructs a list of the success criteria for the design of a solution ii. presents a few feasible design ideas, using an appropriate medium(s) or explains key features, which can be interpreted by others iii. outlines the main reasons for choosing the design with reference to the design specification iv. creates planning drawings/diagrams or lists requirements for the chosen solution.	The student: i. outlines each step in a plan that contains some details, resulting in peers having difficulty following the plan to create the solution ii. demonstrates satisfactory technical skills when making the solution iii. creates the solution, which partially functions and is adequately presented iv. outlines changes made to the chosen design or plan when making the solution.	The student: i. describes a relevant testing method, which generates data, to measure the success of the solution ii. outlines the success of the solution against the design specification based on relevant product testing iii. lists the ways in which the solution could be improved iv. outlines the impact of the solution on the client/target audience.
5–6	The student: i. explains the need for a solution to a problem ii. constructs a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem, with some guidance iii. describes a group of similar products that inspire a solution to the problem iv. develops a design brief, which outlines the findings of relevant research.	The student: i. develops design specifications, which identify the success criteria for the design of a solution ii. presents a range of feasible design ideas, using an appropriate medium(s) and explains key features, which can be interpreted by others iii. presents the chosen design and outlines the main reasons for its selection with reference to the design specification iv. develops accurate planning drawings/diagrams and lists requirements for the creation of the chosen solution.	The student: i. constructs a plan, which considers time and resources, sufficient for peers to be able to follow to create the solution ii. demonstrates competent technical skills when making the solution iii. creates the solution, which functions as intended and is presented appropriately iv. outlines changes made to the chosen design and plan when making the solution.	The student: i. describes relevant testing methods, which generate data, to measure the success of the solution ii. describes the success of the solution against the design specification based on relevant product testing iii. outlines how the solution could be improved iv. describes the impact of the solution on the client/target audience, with guidance.
7–8	The student: i. explains and justifies the need for a solution to a problem ii. constructs a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem independently iii. analyses a group of similar products that inspire a solution to the problem iv. develops a design brief, which presents the analysis of relevant research.	The student: i. develops a design specification which outlines the success criteria for the design of a solution based on the data collected ii. presents a range of feasible design ideas, using an appropriate medium(s) and annotation, which can be correctly interpreted by others iii. presents the chosen design and outlines the reasons for its selection with reference to the design specification iv. develops accurate planning drawings/diagrams and outlines requirements for the creation of the chosen solution.	The student: i. constructs a logical plan, which outlines the efficient use of time and resources, sufficient for peers to be able to follow to create the solution ii. demonstrates excellent technical skills when making the solution iii. follows the plan to create the solution, which functions as intended and is presented appropriately iv. explains changes made to the chosen design and plan when making the solution.	The student: i. describes detailed and relevant testing methods, which generate accurate data, to measure the success of the solution ii. explains the success of the solution against the design specification based on authentic product testing iii. describes how the solution could be improved iv. describes the impact of the solution on the client/target audience.