

Chemistry

Chemistry is the study of the materials the world is made from, their properties, structures and behaviours.

Atomic theory • Classifying materials · Reactions · Managing changes

Mathematical Contexts

Mathematics is the science that deals with the logic of shape, quantity and arrangement.

Approximation • Change • Equivalence · Generalization · Modelling · Patterns · Quantity · Relationships Representation
Space Systems · Validity

Physics

Physics is about explaining the universe

in terms of the simplest possible models

expressed in terms of the movement and

position of objects.

Matter & Particles · Forces · Waves

Gravity & Space • Electricity &

Magnetism

Biology

Biology is the study of living things in their environment.

Organisms · Biological information · Genetics · Variation • Populations • Environment

Patterns and Principles

We all look for recurring patterns and enduring principles to help us make sense of things

What's Worth Learning ... and Why?

A Conceptual Map of our Common Ground

Physical Education

In Physical Education, the focus is on movement and its contribution to the development of individuals and communities.

Competence · Performance · Creativity • Lifestyles

Spirituality

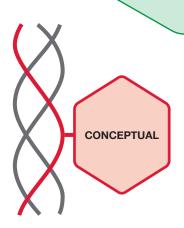
Spiritual education involves the inquiry into spiritual truth.lt involves a sense of connection to something other than ourselves, and a search for meaning in life.

Identity • Values • Faith • Belief • Comfort • Reflection • Ethics • Awe • Truth

Health & Well-being

Achieving Health is achieving a state of complete physical, mental and social well-being, not merely the absence of disease or infirmity (WHO).

Identity · Values · Sustainability · Fulfillment · Positive Functioning · Productivity · Happiness · Life Satisfaction • Work • Social Connectedness • Environment



Purpose and Balance

We all seek meaning and purpose in our existence and we strive towards achieving balance in our lives

Urgency and Agency

We all face pressing challenges that are of such complexity that they demand a multi-disciplinary approach and such importance that they demand our urgent response. We have a profound duty to develop the capacity of our learners to act independently and responsibly in the face of these shared Complexity Challenges.

Environmental

Science

Environmental science is focused

on the study of the relationships

of the natural world and the

relationships between

organisms and their

environments.

Earth and

Ecosystems

We all share a duty of

wardship for the ecosystems

we inhabit; to execute that duty we need to understand how systems work

imagining new futures and making them real

Imagination and

Creativity

We are all creators;

we are all capable of

Stories and Signals

We are all storytellers; we all send messages to each other.

Language

There is no situation in our lives in which language does not participate: we speak to express our ideas, to show feelings to explain things, to dissuade, to persuade, to seduce, but also to control and to even silence others. Language operates with a linguistic system. but is not reduced to it. On the one hand, it is built by a variety of features related to the needs of human thought, and to the needs of social life on the other. Language shapes the way in which we relate to others, to ourselves privately and collectively. Each language shapes the world in its own way. The differences that distinguish us from each other also offer us equality.

> Communication • Expression • Culture
> Conservation Transformation

Power

Construction • Language Interpretation • Values • Profit •

self-expression necessary for successful

citizenship.

Media Literacy

Media Literacy provides a framework to access, analyze, evaluate and create messages in a variety of forms. It builds an understanding of the role of media in society as well as essential skills of inquiry and



Individuals and Groups We all seek personal identity, we all need a place to belong

Human Geography

Geography is the study of the world and the people within it. and the interaction between the two.

Place • Scale • Sustainability Interaction • Patterns • Trends * Processes Environment

Economics

Economics examines the choices people make about the use of limited resources to satisfy unlimited wants.

Scarcity · Value · Markets · Opportunity Cost · Supply & Demand • Incentives Purchasing Power

Civics

Civics is the study of the rights and responsibilities of citizenship.



History

History is the study of groups

of people and their interactions

across time and place

Continuity and Change Citizenship

Group Membership
Power

Culture · Rights & Responsibilities

Conflict
Social Justice

Perspectives

Earth Science

Earth science is the study of the fields of natural science related to the planet Earth. It deals with the physical constitution of the Earth and its atmosphere. Earth science is the study of our planet's physical characteristics, from earthquakes to raindrops, and floods to fossils.



Technology

Technology is intervention by design to expand human possibilities.

empowerment · digital citizenship knowledge construction • innovation · creativity design · communication collaboration • solutions

Innovation

Innovation is the activity of people and organizations to change themselves and the environment. It means breaking routines and dominant ways of thinking, introducing new things/ behaviours/standards. It involves the process of translating an idea into a product or service that has value

Opportunity • Value • Invention • Design • Manufacture • Testing • Ideation • Product/Process Life Cvcle · Technology • Adoption

The Arts

The Arts represent a range of human activities in creating visual, auditory or performing artifacts expressing the author's imaginative concept and technical competency, intended to be appreciated for their beauty and their emotional/expressive power.

Possibility • Creativity • Authenticity • Context · Critique · Interpretation Aesthetic Impact

Literacy

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0 The Common Ground Collaborative 2020