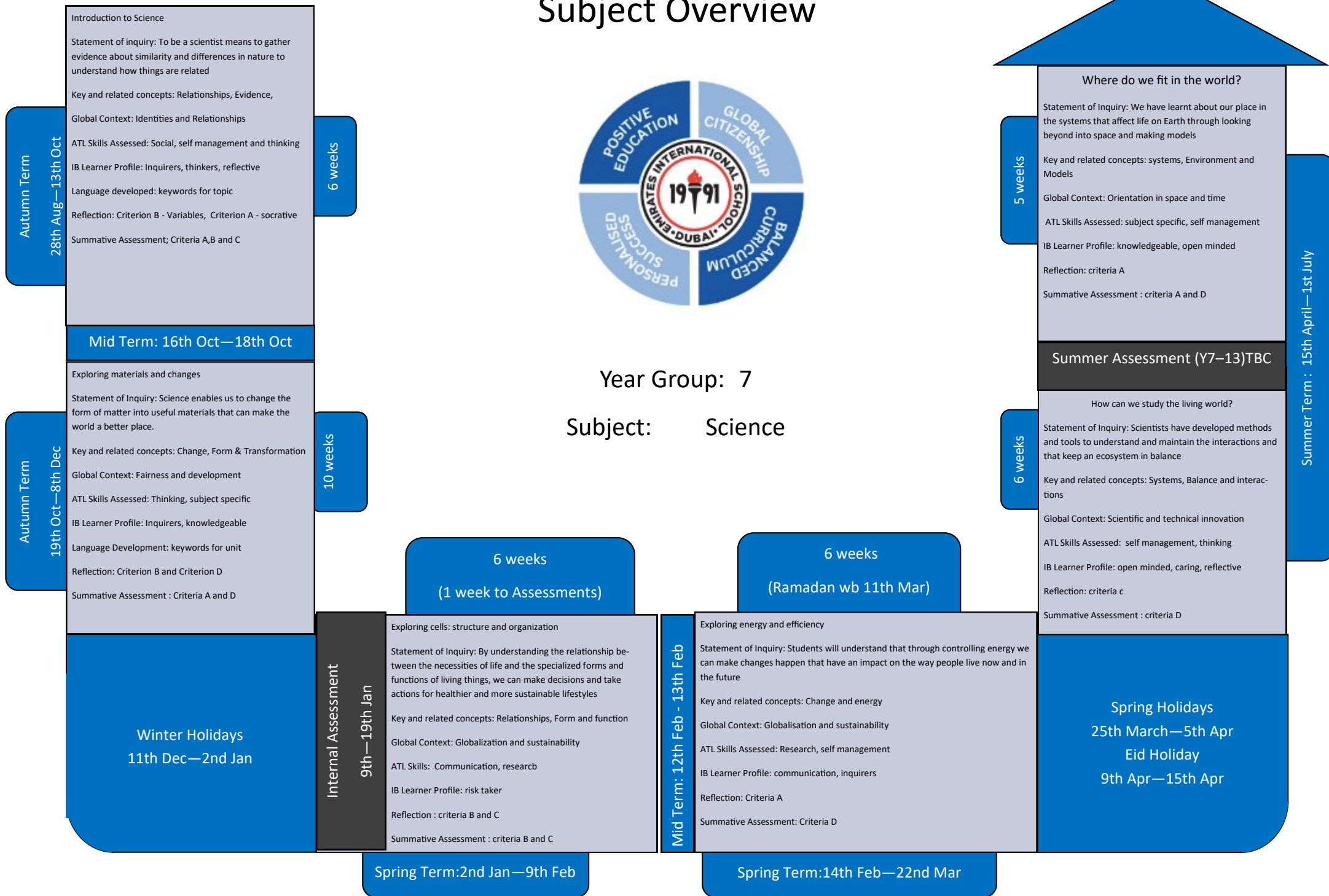


Subject Overview



Year Group: 7

Subject: Science

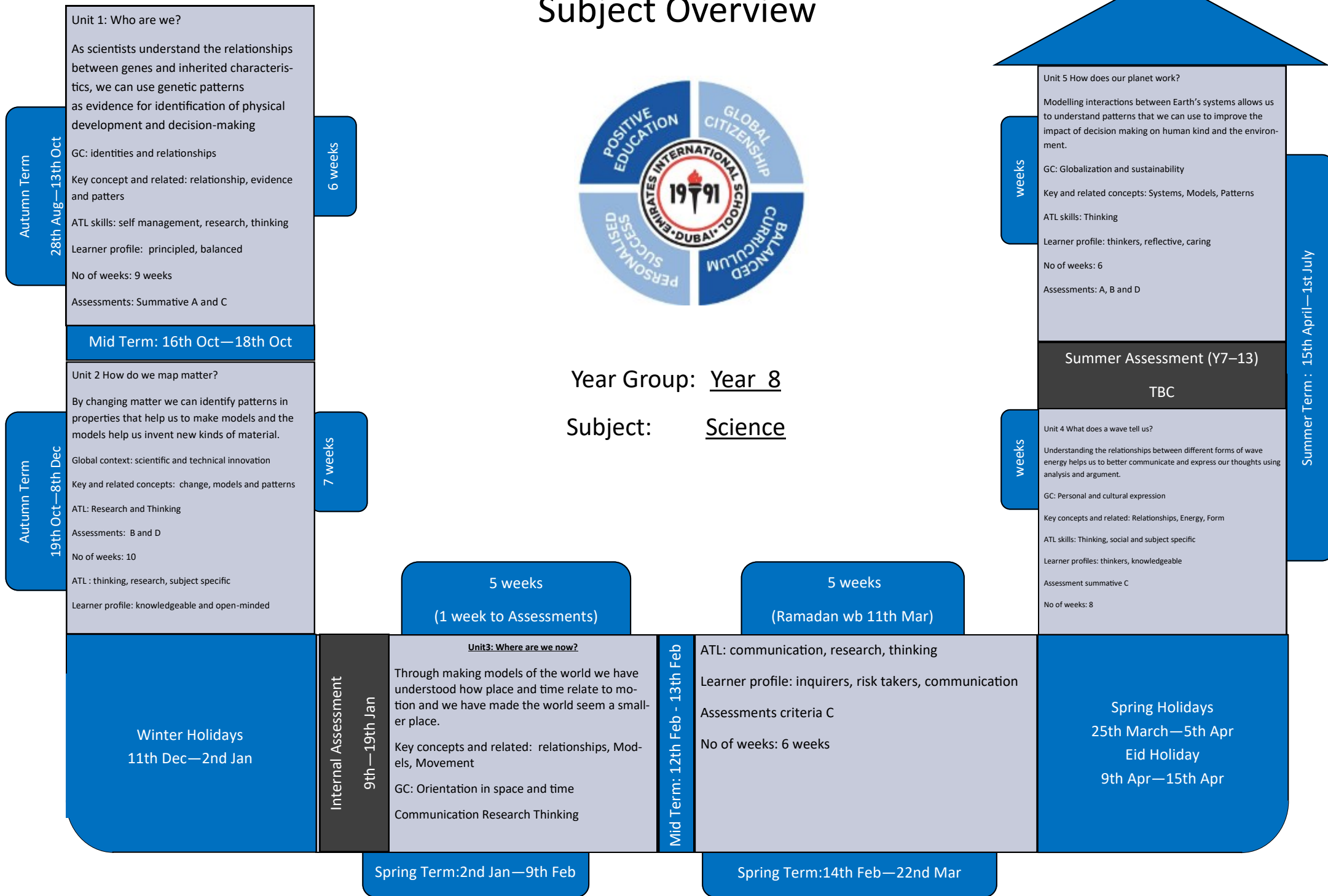


Subject Overview



Year Group: Year 8

Subject: Science

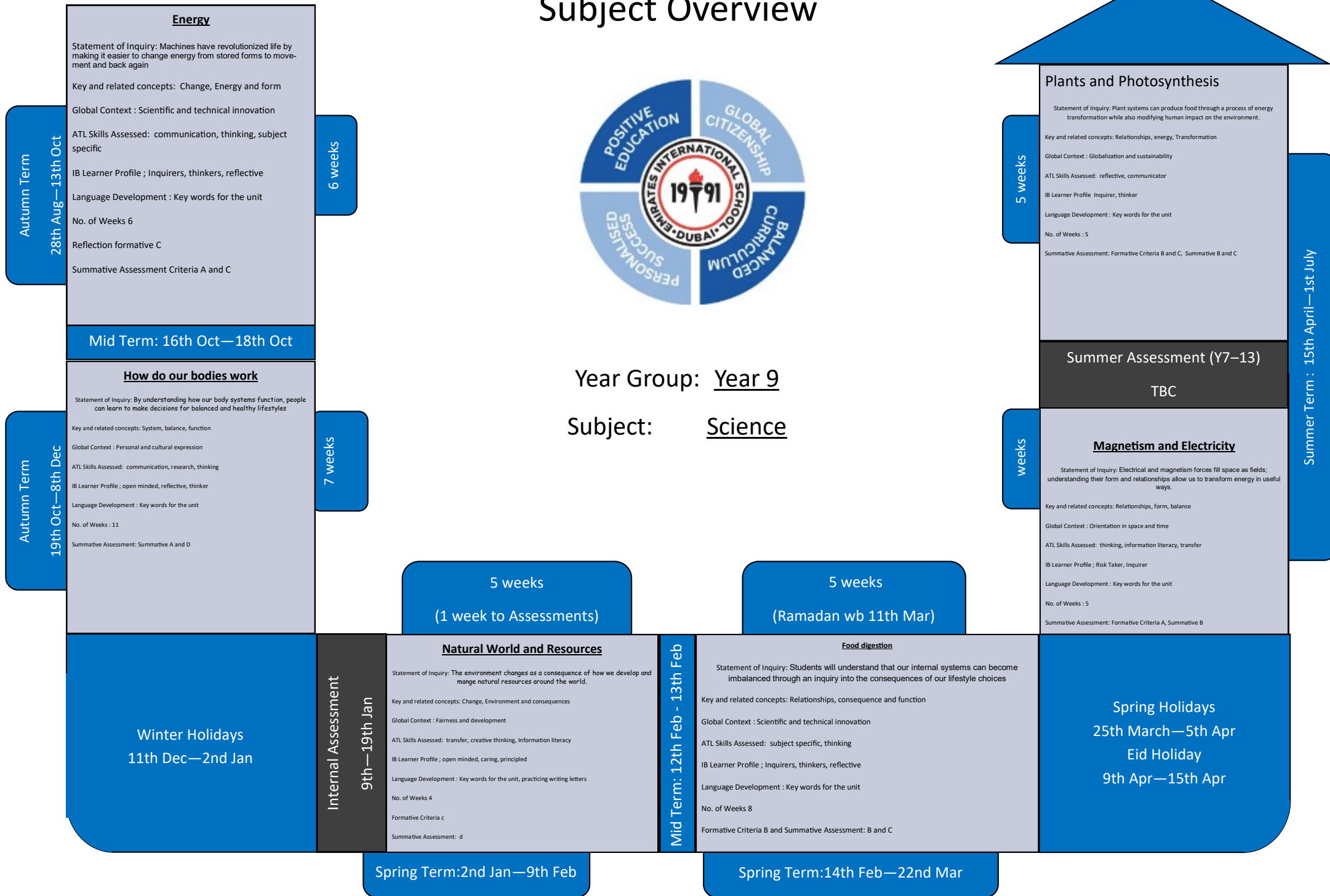


Subject Overview



Year Group: Year 9

Subject: Science

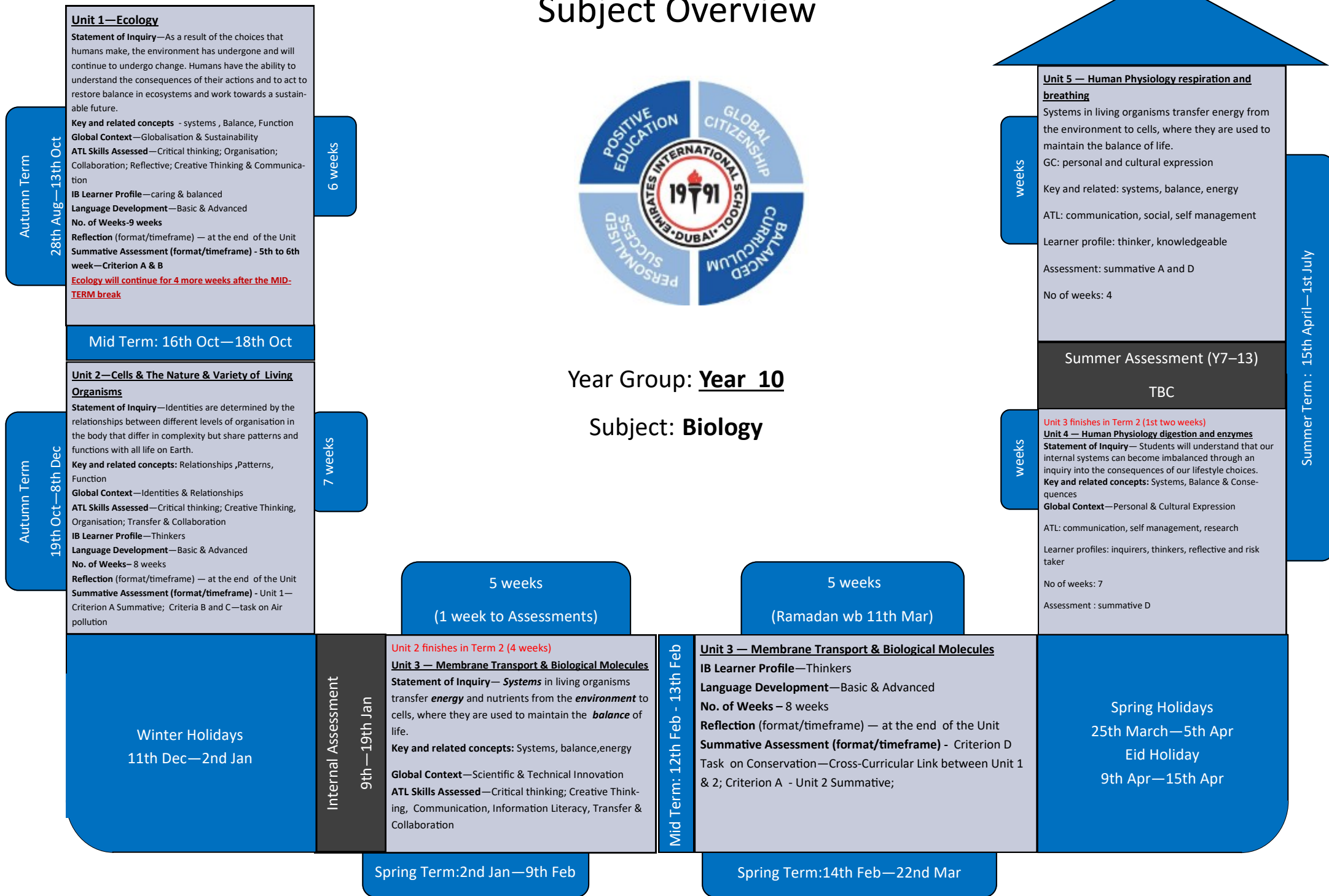


Subject Overview



Year Group: **Year 10**

Subject: **Biology**

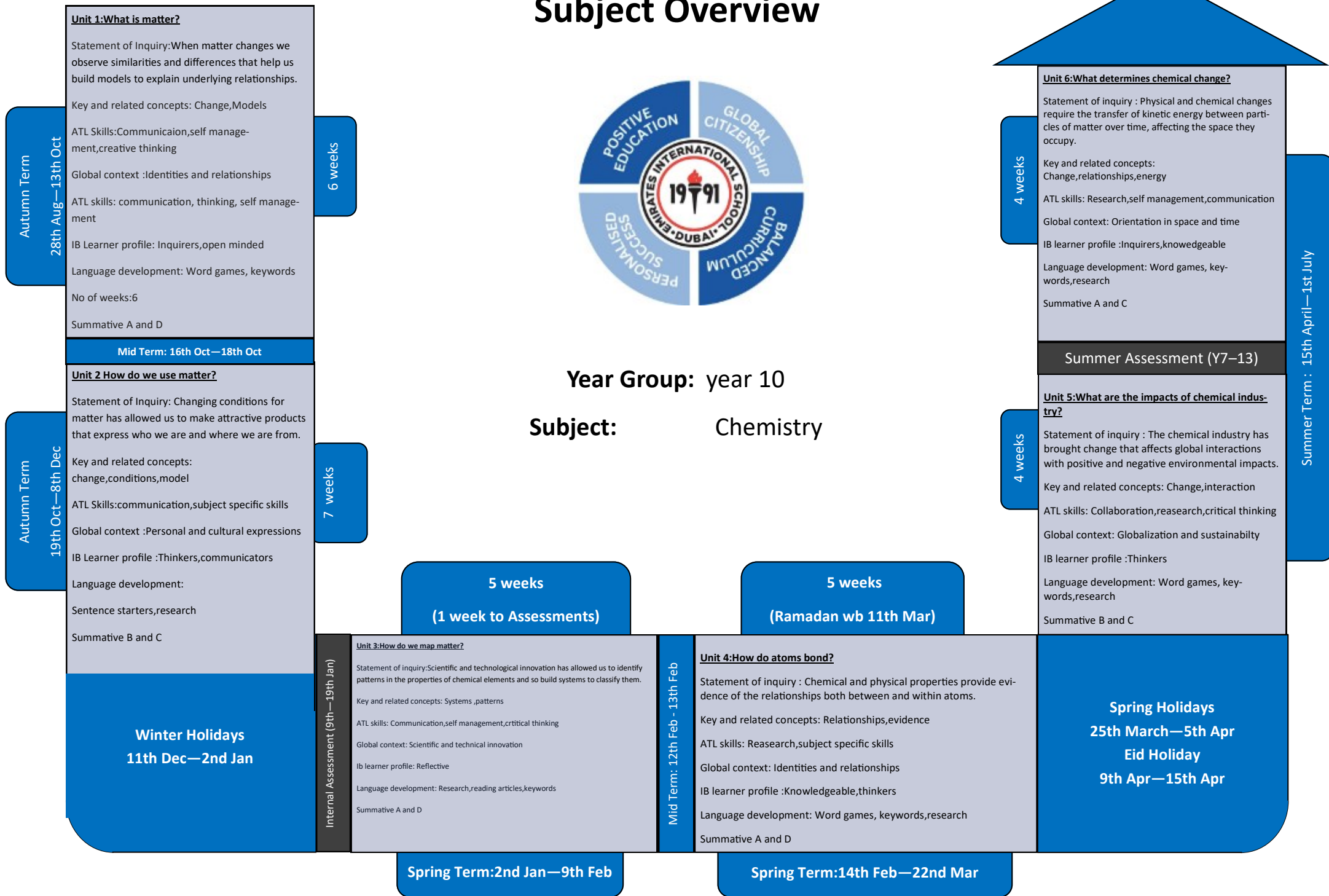


Subject Overview



Year Group: year 10

Subject: Chemistry

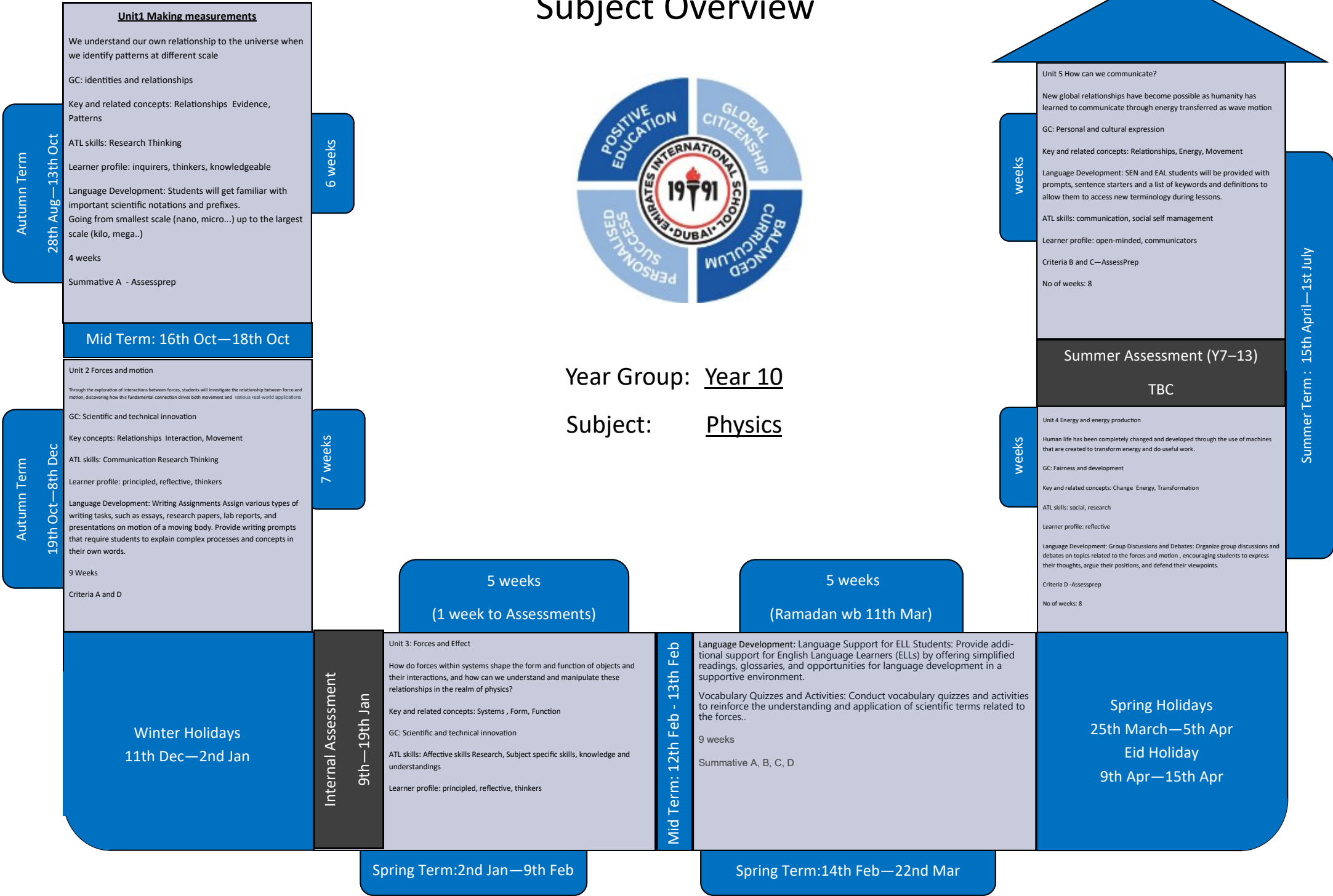


Subject Overview



Year Group: Year 10

Subject: Physics



Subject Overview



Year

Group: 11

Subject: Biology

Autumn Term
28th Aug—13th Oct

Unit 5 — Human Physiology respiration and breathing
Systems in living organisms transfer energy from the environment to cells, where they are used to maintain the balance of life.
GC: personal and cultural expression
Key and related: systems, balance, energy
ATL: communication, social, self management
Learner profile: thinker, knowledgeable
Assessment: summative A and D
No of weeks: 4

6 weeks

Mid Term: 16th Oct—18th Oct

Autumn Term
19th Oct—8th Dec

Unit 6— Plant Physiology
Statement of Inquiry— Complex organisms exhibit complex forms and need many interactive systems to work together.
Key and related concept : Systems, form, function
Global Context— Scientific and technical innovation.
ATL Skills Assessed— Critical thinking skills, communication
IB Learner Profile— caring, reflective, communication, balanced
Summative Assessment— Criteria A, B and C, D summative on assess prep mock exams
No of weeks: 3

7 weeks

5 weeks
(1 week to Assessments)

5 weeks
(Ramadan wb 11th Mar)

Year 11 Mocks
November (TBC)

Winter Holidays
11th Dec—2nd Jan

Unit 7 reproduction and inheritance
Patterns in Inheritance cause organisms to transform & this is then evident in the offsprings produced.
GC: fairness and development
Key and related concepts: change, patterns, transform
ATL skills: Self management, thinking, communication
Learner profiles: inquirers, reflective, communication
Assessments : A and D
No of weeks: 8

Spring Term: 2nd Jan—9th Feb

Mid Term: 12th Feb - 13th Feb

Unit 8— Homeostasis and coordination
Statement of Inquiry— Your body has different approaches to maintain the internal conditions
Key and related concept— change, balance, movement
Global Context— Identity and relationships
ATL Skills Assessed— Critical thinking skills, communication
IB Learner Profile— principled, caring, knowledgeable, thinkers
Summative Assessment— Criterion A, B, C and D summative on assessprep
No of weeks: 6

Spring Term: 14th Feb—22nd March

Pre-DP program for year 11

E-assessment for year 11 commence

Unit 9— Evolution and variation
Statement of Inquiry— Species change over time through interactions with their environment: the evolution of humans has impacted global biodiversity in ways that may not be sustainable.
Key and related concept- change, environment, interactions
Global Context— Orientation is space and time
ATL Skills Assessed— Critical thinking skills, communication, research
IB Learner Profile— Reflective, communication, inquirers
Assessment— Formative options Criterion A, B, C and D and summative A on assess prep
No of weeks: 5

Spring Holidays
25th March—5th Apr
Eid Holiday
9th Apr—15th Apr

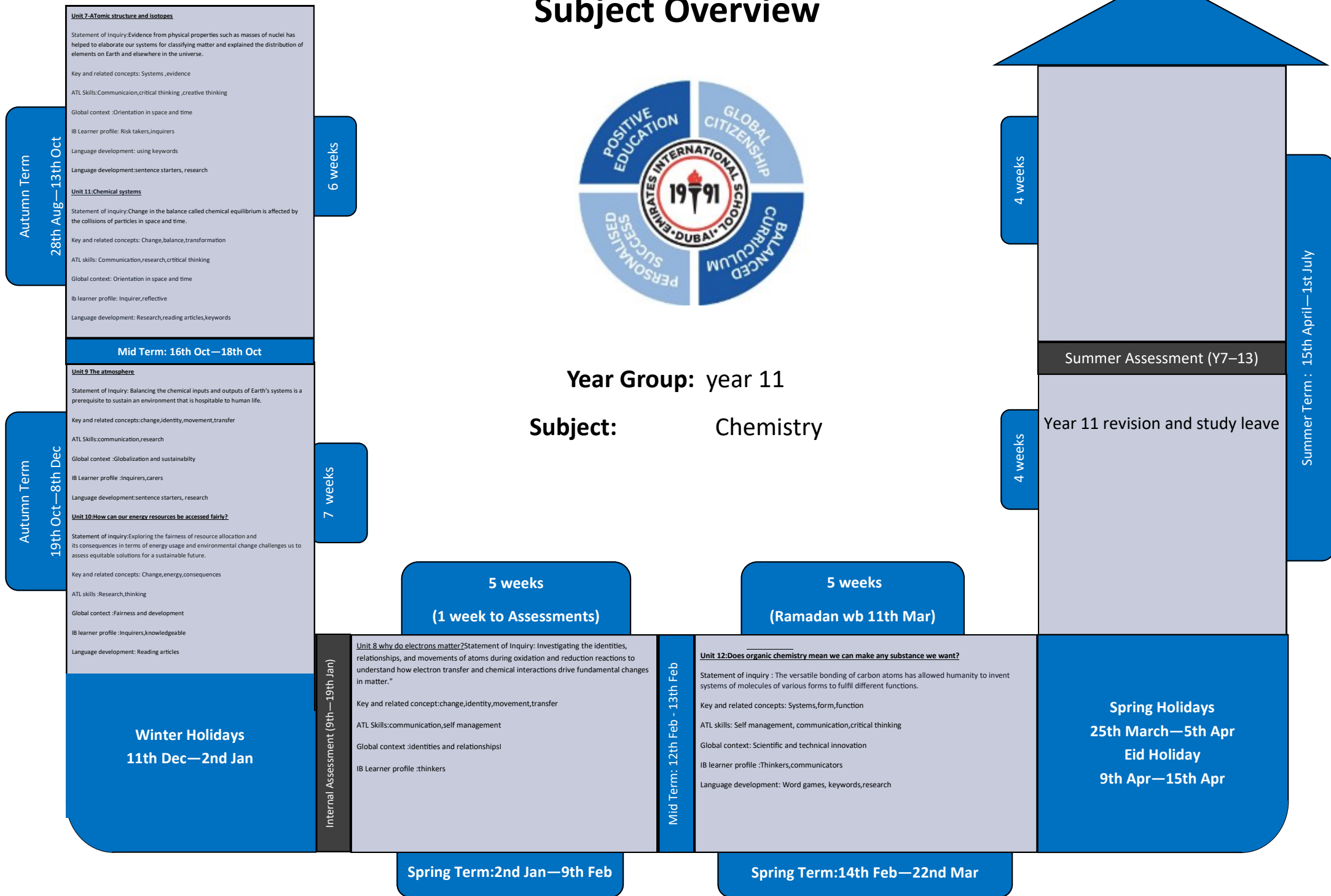
Summer Term : 15th April—1st July

Subject Overview



Year Group: year 11

Subject: Chemistry



Subject Overview



Year Group: Year 11

Subject: Physics

Autumn Term
28th Aug—13th Oct

Unit 6 Useful energy

Human life has been completely changed and developed through the use of machines that are created to transform energy from one form to another.

Key and related concepts: Change Energy, Form, Transformation

GC: Fairness and development

ATL skills: Communication, Thinking, Creative thinking skill

Learner profile: Inquirers, Knowledgeable

Language Development: Group Discussions and Debates: Organize group discussions and debates on topics related to the digestive system, encouraging students to express their thoughts, argue their positions, and defend their viewpoints.

4 weeks

Summative A,B,C - Assessprep

6 weeks

Mid Term: 16th Oct—18th Oct

Autumn Term
19th Oct—8th Dec

Unit 7 Electricity

Scientific and technical innovation in the development and modelling of electrical systems has not only defined the modern world but also harnessed energy in ways that pave the way for new futures to become possible.

Key and related concepts: Systems Energy, Models

GC: Scientific and technical innovation

ATL skills: Self-management, Reflection skills, Research

Learner profile: Inquirers, Knowledgeable, Thinkers

Language Development: Using information from the animation and your wider MYP studies, discuss and evaluate the use of a small-scale solar electrical power supply to solve the problem. Visual Aids and Diagrams: Incorporate visual aids and diagrams to help students visualize. Ask students to label and describe these visuals, reinforcing their ability to convey information.

9 Weeks—

Criteria D

7 weeks

Winter Holidays
11th Dec—2nd Jan

Unit 8: Magnetism and Electromagnetism

Exploring the practical applications of magnetism and electricity, while analyzing real-world patterns and evidence, allows us to identify interactions, predict relationships, and work towards fairness and sustainable development.

Key and related concepts: Relationships Evidence, Interaction, Patterns

GC: Fairness and development

ATL skills: Research, Thinking, Subject specific skills

Learner profile: Open minded, risk taker

Language Development: Writing Assignments Assign various types of writing tasks, such as essays, research papers, lab reports, and presentations on construction of transformer. Provide writing prompts that require students to explain complex processes and concepts in their own words.

5 weeks

Criteria A, B, C—Lab report

5 weeks
(1 week to Assessments)

Spring Term: 2nd Jan—9th Feb

5 weeks
(1 week to Assessments)

5 weeks
(Ramadan wb 11th Mar)

Mid Term: 12th Feb - 13th Feb

Unit 9 Radioactivity

Understanding how to control nuclear changes not only reveals how matter can function in new ways but also enables us to harness vast quantities of energy, with global consequences that span both positive and negative aspects, impacting both globalization and sustainability

Key and related concepts: Change Consequences, Energy, Function

GC: Globalization and sustainability

ATL skills: Communication Social Research

Learner profile: Inquirer, Knowledgeable, Reflective

Language Development: Write a script for an online documentary. Provide writing prompts that require students to explain complex processes and concepts in their own words.

5 weeks

Criteria A and D—Write a script for an online documentary

Spring Term: 14th Feb—22nd Mar

weeks

Summer Assessment (Y7–13)

TBC

Summer Term : 15th April—1st July

weeks

Unit 10 Space

Through the accumulation of evidence, we broaden our comprehension of the interconnections shaping our cosmic models, redefining our position in the vast expanse of space and time.

Key and related concepts: Relationships, Models, Evidence

GC: Orientation in space and time

ATL skills: Social_Self-management, Research

Learner profile: Inquirer, Knowledgeable, Reflective

Language Development: 1. Vocabulary Development: Introduce and reinforce scientific and medical terminology related to space. This will expand students' specialized vocabulary. Provide context for new terms and encourage students to use them in their discussions and writing.

2. Reading Comprehension: Assign readings, articles, or textbooks related to the digestive system. These texts can vary in complexity based on grade level. Encourage active reading strategies, such as highlighting key information and taking notes, to improve comprehension.

Criteria A

3 weeks

Spring Holidays
25th March—5th Apr

Eid Holiday
9th Apr—15th Apr

Spring Term: 14th Feb—22nd Mar