

Topic

Entry Points:

Understanding what is ecosystems we can encounter, what types of ecosystems you find in the UAE. What ecosystems can we find in the global environment.

Outcomes:

Learners understand, can discuss and construct ideas about the different ecosystems that can be found globally and within the UAE.

Experiences:

Learners will observe ecosystems and interpret data on organisms and population of organisms in the ecosystem.

Pupil Voice:

Learners will attend a field trip and complete assignments on the topic.

Evaluation:

Learners have completed class activities, homework tasks as well as learner participation within the lesson are used to evaluate learners' performance. Learners also complete assessments.

Math

Expressions & Equations

Week 1

Use properties of operations to generate equivalent expressions.

7.EE.A.1 - Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.

7.EE.A.2 - Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.

Week 2

Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

7.EE.B.3 - Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies

Week 3

7.EE.B.4 - Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.

7.EE.B.4.A - Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p , q , and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.

Construct ideas Week 4 & Week 5

7.EE.B.4.B - Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p , q , and r are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem.

Week 6 (midterm)

ELA

RL.7.1. Cite several pieces of textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.

RL.7.2. Determine a theme or central idea of a text and analyze its development over the course of the text; provide an objective summary of the text.

RL.7.6. Analyze how an author develops and contrasts the points of view of different characters or narrators in a text.

RL.7.9. Compare and contrast a fictional portrayal of a time, place, or character and a historical account of the same period as a means of understanding how authors of fiction use or alter history.

RL.7.10. By the end of the year, read and comprehend literature, including stories, dramas, and poems, in the grades 6–8 text complexity band proficiently, with scaffolding as needed at the high end of the range.

RL.7.11 (NYS). Recognize, interpret, and make connections in narratives, poetry, and drama, ethically and artistically to other texts, ideas, cultural perspectives, eras, personal events, and situations.

RI.7.1. Cite several pieces of textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.

W.7.2. Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.

W.7.3. Write narratives to develop real or imagined experiences or events using effective technique, relevant descriptive details, and well-structured event sequences

W.7.4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)

W.7.8. Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.

W.7.9. Draw evidence from literary or informational texts to support analysis, reflection, and research.

L.7.1. Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

Key Vocabulary

English:

utter, earnest, solemn, chaos, monotonous, relentless, torrent, abundant, bewilder, parched, Amsterdam, Nairobi, indicate, emerge, constant, apparent.

Math:

Operations, add, subtract, Factor, Linear expressions, Expand, Rational coefficients, rewrite, multistep. Real life, problems, positive, negative, rational numbers, equations, algebraic, arithmetic, inequalities, graph, interpret, scale, drawing, geometric figures, lengths, areas, freehand, ruler, protractor, triangles, measure, angles, two dimensional figures, , three dimensional figures, plane section, prisms, pyramids, surface area, volume, formulas, circumference, supplementary angles, complementary angles, vertical angles, adjacent angles, quadrilaterals, polygons, cubes, right prisms.

Science:

Organisms, Ecosystems, Biomes, Population, Biodiversity
Biological, Quantitative, Qualitative.

Social Studies:

Population; Migration; Routes; Exploration; Classification; Investigations.

Topic: Ecosystems

What are ecosystems?

Grade 7, Term 2 Unit 1 (Week 1 – 5)

Moral Education

Moral imperative rules governing behavior
Staying safe at Home and outside
Responding to Harmful situations
First Aid
Ways of Protection against Crimes
Thinking about Crime.

National Identity

The UAE has a varied topography with sand dunes, oases, rocky mountains, valleys, marshes and mangroves and salt plains. Its ecosystem is as varied. Learners will be looking at the various ecosystems in the UAE.

The UAE's natural environment is diverse with three major varieties of ecosystems: desert ecosystem, mountain ecosystem and coastal and marine ecosystem.

Science

LS2-1 analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem .

LS2-2 construct an explanation that predicts patterns of interactions among organisms across multiple ecosystem.

S2-3 develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.

Social Studies

200 000 to 10 000 Years Ago – How to use evidence;
200 000 to 10 000 Years Ago – Review;
Climate change between 10 000 to 8 000 BCE;
Hunting and domestication society;
Excavations at Jebel Buha;is;
Lives of People Living in the UAR in Neolithic Times
Maritime Trade;
Change in climate and effects;
Growing Crops led to changes in the way people lived;
Using technology to access water supplies.

DT/FT

Students will cook different recipes to develop their cooking skills set.

Students will learn about food hygiene and how to follow recipes.

Students will operate cooking equipment in a safe and correct manner.

ICT

W6.Demonstrate use of intermediate features in word processing applications (e.g., tabs, indents, headers and footers, end notes, bullet and numbering, tables).
IN7.Use Web browsing to access information (e.g., enter a URL, access links, create bookmarks/favorites, print Web pages
IN8.Identify probable types and locations of Web sites by examining their domain names, and explain that misleading domain names are sometimes created in order to deceive people (e.g., .edu, .com, .org, .gov, .au).
P6.Create a multimedia presentation using various media as appropriate (e.g., audio, video, animations, etc.).
H6.Identify cyber-bullying and describe strategies to deal with such a situation.
H9.Describe how cyber-bullying can be blocked.
CC3. Create projects that use text and various forms of graphics, audio, and video (with proper citations) to communicate ideas.

Visual & Performing Arts

Music:

Create developmentally appropriate movements to express pitch, tempo, form, and dynamics in music.

Art:

This term we will discuss and create an example of Abstract and Realism art.

PE

This Term will focus in Team sport and athletic events such Track and Field, Relay Races, Hurdling, Javelin Throw and Baseball.