

Topic

Entry Points: **What are forces and motions and how do they affect us in our daily life?**

Outcomes: Learners will evaluate how forces and motions play a vital role in their lives.

Experiences: Learners will use science and PE to understand the physical effects of forces and motions.

Pupil Voice: A field trip will be organized to reinforce this knowledge.

Evaluation: Students will complete tasks and assignments based on the guiding question and write an essay at the end of term.

Math

Expressions & Equations

Week 1

Apply and extend previous understandings of arithmetic to algebraic expressions.

6.EE.A.1 - Write and evaluate numerical expressions involving whole-number exponents

6.EE.A.2 - Write, read, and evaluate expressions in which letters stand for numbers.

6.EE.A.2.A - Write expressions that record operations with numbers and with letters standing for numbers.

6.EE.A.2.B - Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity.

Week 2

6.EE.A.2.C - Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations)

6.EE.A.3 - Apply the properties of operations to generate equivalent expressions.

6.EE.A.4 - Identify when two expressions are equivalent

Week 3

Reason about and solve one-variable equations and inequalities.

6.EE.B.5 - Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.

6.EE.B.6 - Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.

Week 4

6.EE.B.7 - Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p , q and x are all nonnegative rational numbers.

6.EE.B.8 - Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.

Week 5

Represent and analyze quantitative relationships between dependent and independent variables.

6.EE.C.9 - Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time.

Week 6

Recap on all previous learning.

ELA

RL.6.1. Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.

RL.6.2. Determine a theme or central idea of a text and how it is conveyed through particular details; provide a summary of the text distinct from personal opinions or judgments.

RL.6.3. Describe how a particular story's or drama's plot unfolds in a series of episodes as well as how the characters respond or change as the plot moves toward a resolution

RI.6.1. Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text

W.6.2. Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content

W.6.3. Write narratives to develop real or imagined experiences or events using effective technique, relevant descriptive details, and well-structured event sequences.

W.6.4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

W.6.9. Draw evidence from literary or informational texts to support analysis, reflection, and research.

L.6.1. Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

A. Ensure that pronouns are in the proper case (subjective, objective, possessive)

B. Use intensive pronouns (e.g., myself, ourselves).

C. Recognize and correct inappropriate shifts in pronoun number and person.

D. Recognize and correct vague pronouns (i.e., ones with unclear or ambiguous antecedents).

L.6.2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

A. Vary sentence patterns for meaning, reader/listener interest, and style

B. Maintain consistency in style and tone.

L.6.3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.

Key Vocabulary

English: learning target, gist, annotate, reflect; prophecy, fate, imprisoned, stunning, dreaded, writhing, hero, hero's journey, align, archetype; psychologist, mythological, embark, supernatural, trial, ordeal

Math: Evaluate, numerical, expressions, exponents, operations, identify, terms, sum, term, product, quotient, factor, coefficient, variables, formulas, parentheses, order of operations, equivalent, equations, inequalities, constraint, right angle, triangles, quadrilaterals, polygons, composing, decomposing, volume, prism, fractional, formulas, coordinates, vertices, three dimensional figures, nets, surface area,

Science: Motion, Force, Balance, Object, Mass, Weight

Social Studies: Native; Subcontinent; Colony; Military Strengths; Merchants; Warships.

Topic: Forces and motions

What are forces and motions and how do they affect us in our daily life?

Grade 6, Term 2 Unit 1 (Week 1 – 5)

Moral Education

Equality and Justice as Fairness

Distributive Justice

Standards of Distributive Justice

How is fair Distribution accomplished?

National Identity

Equality and Justice in the UAE

Aspects of the UAE judicial system

Standards of Distributive Justice

How is fair Distribution accomplished in the UAE?

Science

MS-PS2-1 apply Newton's third law to design a problem involving the motion of two colliding objects.

MS-PS2-2 plan an investigation to provide evidence that the change in an objects motion depends on the sun of the forces on the object and the mass of the object.

Social Studies

Age of European Discovery;
Portuguese arrive;
British Arrive;
Life in the Trucial states;
Maritime Trade;
Living by the Sea - Fishing;
Pearl Diving in the Trucial States;
Pearl Trading;
Trucial Ottoman Scouts
Life of an Oasis in the Trucial States

DT/FT

Students will learn about different programs and robotics. The programming will be used through EV3 bots which will complete challenges.

Students get to be creative and solve real world problems.

Students will use different types of sensors to control the bots and learn how beneficial robots

ICT

W6. Demonstrate use of intermediate features in word processing applications (e.g., tabs, indents, headers and footers, end notes, bullet and numbering, tables).
CC3.Create projects that use text and various forms of graphics, audio, and video (with proper citations) to communicate ideas.

Visual & Performing Arts

ART: Grade 6: Create developmentally appropriate movements to express pitch, tempo, form, and dynamics in music

MUSIC: Grade 6: Create developmentally appropriate movements to express pitch, tempo, form, and dynamics in music

PE

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