

5th & 6th Grade Unit of Inquiry Summary “How the World Works”

Central Idea:

Change is a natural component of society and the world around us.

Lines of Inquiry:

- Change is quantified and qualified.
- Change is physical, biological, and transitional.
- Factors that lead to change.
- Recognizing change around us.

Key concepts:

- Change: How is it changing?
- Perspective: What are the points of view?
- Causation: Why is it like this?

Content & Standards Covered

Reading Literature and Informational Text

Students will be able to:

- Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
- 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.
- 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.
- Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings; analyze the impact of a specific word choice on meaning and tone.
- Read and comprehend literature including stories, poems, and non-fiction literature independently and proficiently.

Explanatory Writing

- Introduce a topic; organize ideas, concepts, and information, using strategies such as definition, classification, comparison/contrast, and cause/effect; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.
- Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples.
- Use precise language and domain-specific vocabulary to inform about or explain the topic.
- Establish and maintain a formal style.
- Provide a concluding statement or section that follows from the information or explanation presented.

Language:

- Explain the function of conjunctions, prepositions, and interjections in general and their function in particular sentences.
- Ensure that pronouns are in the proper case (subjective, objective, possessive), use intensive pronouns (e.g., myself, ourselves) and recognize and correct inappropriate shifts in pronoun number and person.
- Use the relationship between particular words (e.g., synonyms, antonyms, homographs) to better understand each of the words.

Math

5th Grade students will be able to:

- Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft., and improvised units.
- Apply the formulas $V=l \times w \times h$ and $V = b \times h$ for rectangular prisms to find volumes of right rectangular prisms.
- Add fractions through reasoning about fraction equivalents and relationships.
- Add and subtract fractions with unlike denominators (including mixed numbers).
- Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators.

6th Grade students will be able to:

- Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane.
- Use tables to compare ratios.
- Solve unit rate problems including those involving unit pricing and constant speed.
- Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity).
- Solve problems involving finding the whole, given a part and the percent.
- Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.
- Apply the properties of operations to generate equivalent expressions for example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$.

Social Studies

Students will be able to:

- Understand how to use maps and other geographic representations, tools, and technologies to acquire, process, and report information from a spatial perspective.
- Understand how to analyze the spatial organization of people, places, and environments on Earth's surface.
- Understand the physical and human characteristics of places.
- Understand how culture and experience influence people's perceptions of places and regions.

Science

Students will be able to:

- Use scientific vocabulary to explain their observations and experiences.
- Make and test predictions.
- Interpret and evaluate data gathered in order to draw conclusions.
- Identify the difference between physical and chemical changes.
- Investigate the ways materials can be changed (for example, metal, sand)
- assess the benefits and challenges of changing materials to suit people's needs and wants (for example, plastic).

Art

Students will be able to:

- Learn about the principles, tools and techniques used in drawing
- Learn about the tools and techniques of shading
- Learn and analyze how to create a textured affect using pencil and ink
- Learn how to draw an architectural site plan
- Learn how to build a topographic model
- Learn how to draw and build in scale
- Explore and apply the Golden Section and Fibonacci Series to artistic compositions

Arabic

Students will be able to:

- write independently and with confidence, demonstrating a personal voice as a writer
- use appropriate punctuation to support meaning.
- check punctuation, variety of sentence starters, spelling, presentation.
- demonstrate an increasing understanding of how grammar works.
- Locate, organize and synthesize information from a variety of sources including the library/media center, the internet, people in the school, family, the immediate community or the global community.
- read a variety of books for pleasure, instruction and information; reflect regularly on reading and set future goals.
- use standard grammatical structures competently in appropriate situations.
- recognize that different forms of grammar are used in different contexts.

Islamic Studies

Students will be able to:

- Analyze the journey of Al-Isra Wal-Miraj.
- Explain the significance of this event in the Prophet (*sallallahu alaihi wasallam*)'s life.
- Investigate the importance of Salah.
- Research various Hadith which mention the importance of Salah and its effects in the Hereafter.

- Review the steps of Wudoo.
- Justify the value of making Wudoo for every Salah.
- Review the steps of Salah.
- Recite all corresponding duaa of Salah.
- Understand the significance of puberty in Islam.
- Explore the developmental changes which signify the beginnings of adulthood.
- Analyze how the Book of Deeds are open for adults in Islam and what it means.
- Generate a list of tools and supplies a Muslim will need to survive in any environment, keeping in mind the obligations of Islam.