

Quarter 1 (Physics)

WEEK 1: Physics in Daily Life and Motion

Day #	Focused Topic	Activity
1	Physics and Daily Living	Identify various ways physics enhances our quality of life.
2	Translational vs. Rotational Motion	Compare and contrast linear and angular motion.
3	Demonstrating Motion	Demonstrate relationships between linear and angular quantities.
4	Human Movement and Ergonomics	Apply motion to exercises and ergonomic design.

WEEK 2: Machines and Hydraulic Systems

Day #	Focused Topic	Activity
5	Designing Efficient Machines	Design simple and compound machines.
6	Understanding Machine Efficiency	Explain characteristics of efficient machines.
7	Hydraulic Systems	Explain how hydraulic systems enhance machines.
8	Applications of Fluid Principles	Identify applications of Archimedes’ and Pascal’s principles.

Day 9: SUMMATIVE ASSESSMENT 1

Covers Weeks 1–2 (Days 1–8): Motion and Machines

WEEK 3: Buoyancy and Electricity

Day #	Focused Topic	Activity
10	Buoyancy and Floating	Model how shape, mass, and volume affect floating.
11	Electrical Hazards	Discuss practices to avoid electrical dangers.
12	Energy Efficiency	Propose ways to reduce energy loss and wastage.
13	Electricity in Society	Analyze generation and consumption patterns.

WEEK 4: Light and Sound

Day #	Focused Topic	Activity
14	Light and Sound Properties	Discuss properties of light and sound in tech and health.
15	Light and Sound Innovations	Identify tools like LEDs, lasers, and soundproofing.
16	Integration: Motion and Machines	Review and integrate motion-related concepts.
17	Integration: Fluids and Electricity	Synthesize electricity and fluid principles.

Day 18: SUMMATIVE ASSESSMENT 2

Covers Weeks 3–4 (Days 10–17): Buoyancy, Electricity, Light & Sound

WEEK 5: Synthesis and Planning

Day #	Focused Topic	Activity
19	Review: Light and Sound	Peer teaching and concept mapping.
20	Group Integration Task	Analyze a real-world energy system.
21	Planning the Final Task	Blueprint a model with applied physics principles.
22	Task Design and Materials	Finalize planning and assign roles.

WEEK 6: Prototyping and Dry Run

Day #	Focused Topic	Activity
23	Model Building	Start building the performance task.
24	Function Testing & Peer Critique	Rehearse and finalize group presentation.

Day 25 (start of Week 7): SUMMATIVE ASSESSMENT 3

Covers Weeks 5–6 (Days 19–24): Integration and Model Planning

WEEKS 7–8: PERFORMANCE TASK

Week	Focused Task	Activity
7	Finalization of Model	Apply feedback, finalize construction, and documentation.
8	Presentation	Present model explaining scientific principles and real-world applications.

Quarter 2 (Chemistry)

WEEK 1: Chemists and Their Contributions

Day #	Focused Topic	Activity (DepEd Competency as-is)
1	Louis Pasteur’s Contributions	Use information from secondary resources to report how Louis Pasteur combined research from the fields of chemistry and biology, which has helped scientists to understand the cause of some diseases and prevent infection.
2	Impact on Disease Prevention	Analyze how Pasteur’s discoveries changed medical practices.
3	Application to Modern Science	Investigate a local example of chemical discovery in health or agriculture.
4	Reflection and Review	Present key insights from research.

WEEK 2: Chemical Substances in Household and Personal Care Products

Day #	Focused Topic	Activity (DepEd Competency as-is)
5	Identifying Ingredients	Construct a table using product labels that describe the function of the different substances (elements or compounds) present in household products.
6	Benefits and Risks	Explain the benefits and potential risks of using and disposing of household and personal care products, by considering their chemical composition, environmental impact, and human health effects.

Budget of Work

7	Agency Guidelines (DTI, FDA, DENR)	Evaluate how policies regulate chemical use and disposal.
8	Reporting and Summary	Create a chart or infographic synthesizing product effects.

Day 9: SUMMATIVE ASSESSMENT 1

Covers Weeks 1–2 (Days 1–8): Chemist Contributions & Household Chemical Analysis

WEEK 3: Chemical Reactions in Everyday Life

Day #	Focused Topic	Activity (DepEd Competency as-is)
10	Common Reaction Types	Explain some of the common types of chemical reactions and provide examples for the following: decomposition, acid on carbonates, acids on metals, and combustion.
11	Identifying Daily Reactions	Identify the type of chemical reactions that occur in our daily activities, including baking, cleaning, and burning.
12	Equations in Bio & Environmental Processes	Use chemical equations to show biological and environmental processes such as photosynthesis and respiration.
13	Metabolism in the Body	Describe the chemical reactions that take place in our body cells, which are referred to as metabolism, and explain their significance.

WEEK 4: Solutions and Their Environmental Impact

Day #	Focused Topic	Activity (DepEd Competency as-is)
14	Characteristics of Solutions	Explain the characteristics of solutions and their examples in household products, industry, and environmental science.
15	Safe Handling of Chemicals	Apply best practices in the proper handling, storage, and disposal of chemicals.
16	Saltwater Effect on Plants (Experiment)	Investigate how much salt dissolved in water will prevent the growth of a simple garden plant.
17	Impact on Ecosystems	Create a table to show how solutions of saltwater and wastewater can affect local ecosystems and recommend ways to minimize their negative impact on the environment.

Day 18: SUMMATIVE ASSESSMENT 2

Covers Weeks 3–4 (Days 10–17): Reactions & Solutions

WEEK 5: Integration and Review

Day #	Focused Topic	Activity
19	Reaction Mapping	Create a visual chart linking chemical reactions to everyday events.
20	Ecosystem Chemistry	Analyze a community case study on water contamination or acid rain.
21	Agency Roles	Discuss the importance of DOST, FDA, DENR in regulating chemicals.
22	Group Reporting	Group presentation summarizing one issue related to chemical safety or sustainability.

WEEK 6: Performance Task Preparation

Day #	Focused Topic	Activity
23	Task Planning	Look for household or personal care products and identify their active ingredients.
24	Mini Research Begins	Begin researching each active ingredient: brief description, other uses, and potential impacts.

Day 25 (start of Week 7): SUMMATIVE ASSESSMENT 3

Covers Weeks 5–6 (Days 19–24): Integration and Performance Task Planning

WEEKS 7–8: PERFORMANCE TASK

Task: Investigate a household or personal care product. Identify its active ingredient, describe its uses, and evaluate its potential impact on human health and the environment.

Week	Focused Task	Activity
7	Research and Drafting	Finalize background, research citations, and infographics/posters or presentations.
8	Presentation	Present findings to class or science panel; reflect on real-life relevance.

Quarter 3 (Biology)

WEEK 1: Unifying Themes of Life Science

Day #	Focused Topic	Activity (DepEd Competency as-is)
1	Life as Systems	Explain using photographs or videos of simple plants or animals as examples how life forms operate as systems of related parts working together.
2	Structure and Function	Create a diagram to show the relationship between the structural components of a biological system and their functions.
3	Levels of Organization	Illustrate and compare cell, tissue, organ, and system relationships.
4	Mini-Project Presentation	Present diagrammed examples of systems working together.

WEEK 2: Cells and Energy

Day #	Focused Topic	Activity (DepEd Competency as-is)
5	Nutrient Absorption	Describe how cells obtain nutrients from food and convert them into energy through cellular processes to sustain life in plants and animals.
6	Photosynthesis and Respiration	Show how cells use glucose for energy via chemical equations.
7	Organelles and Their Role	Use analogy or roleplay to present organelle functions.
8	Synthesis Worksheet	Organize energy process flow in cell systems.

WEEK 3: Organ Systems Working Together

Day #	Focused Topic	Activity (DepEd Competency as-is)
10	Plant Organs and Transport	Explain how various plant organs interact to facilitate the transport of materials throughout the plant system.
11	Effects of System Failure	Describe how a damaged part in a system affects the organism using the case of a torn ACL and an asthma attack.
12	Nervous and Endocrine Systems	Explain how the nervous and endocrine systems work together to regulate body temperature in response to stimuli.
13	Immune and Lymphatic Systems	Explain how vaccines work by relating to the functions of the immune and lymphatic systems in protecting an organism against infectious diseases.

WEEK 4: Climate Change and Ecosystems

Day #	Focused Topic	Activity (DepEd Competency as-is)
14	Climate Change Defined	Describe what is meant by the term ‘climate change’.
15	Biological Response	Describe how biological systems respond to climate change and contribute to understanding its effects on living organisms in the Philippines.
16	Impact on Ecosystems	Explain how climate change impacts Philippine ecosystems.
17	Reflection Poster	Visualize changes in local biodiversity due to climate effects.

Day 18: SUMMATIVE ASSESSMENT 2

Covers Weeks 3–4 (Days 10–17): Organ Systems & Climate Change

WEEK 5: Adaptation and Biodiversity

Day #	Focused Topic	Activity (DepEd Competency as-is)
19	Mitigation Strategies	Propose ways to adapt and mitigate the impacts of climate change on local biodiversity.
20	Local Examples of Adaptation	Community-based strategy brainstorming or interview.
21	Overpopulation Effects	Analyze information from secondary sources to evaluate the adverse effects of overpopulation locally and globally.
22	Video Analysis	Watch and analyze a documentary on population growth or biodiversity collapse.

WEEK 6: Integration and Task Planning

Day #	Focused Topic	Activity
23	Synthesis of Key Themes	Create a concept map linking cell systems, organ systems, climate change, and human impact.
24	Task Planning	Brainstorm and draft initial ideas for performance task using chosen format (podcast, infographic, vlog, etc.).

Day 25 (start of Week 7): SUMMATIVE ASSESSMENT 3

Covers Weeks 5–6 (Days 19–24): Biodiversity & Adaptation

WEEKS 7–8: PERFORMANCE TASK

Task: *Create a multimodal presentation (e.g., forum, infographic, podcast, vlog, etc.) to effectively communicate key concepts about the effects of climate change on the local ecosystem in the learners' community.*

Week	Focused Task	Activity
7	Research and Content Finalization	Students conduct research, storyboard, and script their message.
8	Presentation and Reflection	Present project and conduct peer evaluation and reflection on impact and clarity of message.

Quarter 4 (Earth and Space Science)

WEEK 1: Earth's Uniqueness and Conditions for Life

Day #	Focused Topic	Activity (DepEd Competency as-is)
1	Why Earth Supports Life	Explain the characteristics of Earth that support life in comparison with the other planets of the Solar System.
2	Greenhouse Effect	Describe how the greenhouse effect regulates Earth's temperature, making it suitable for life.
3	Formation of the PH	Demonstrate how the Philippine archipelago was formed.
4	PH Landforms and Life	Explain using suitable resources the unique landforms, climate, and life forms of the Philippines.

WEEK 2: Earth Materials and Geologic Hazards

Day #	Focused Topic	Activity (DepEd Competency as-is)
5	Rocks, Minerals, and Soils	Describe the distinctive properties and local availability of earth materials, including rocks, minerals, and soils.
6	Use of Earth Materials	Show how they are harnessed to support human activities and industries.
7	Geologic and Hydro Hazards	Describe geological and hydrometeorological hazards such as volcanic eruptions, earthquakes, typhoons, etc.
8	Slow Geologic Processes	Identify and explain slowly acting processes such as erosion and saltwater intrusion.

Budget of Work
Day 9: SUMMATIVE ASSESSMENT 1
Covers Weeks 1–2 (Days 1–8): Earth’s Uniqueness, PH, and Earth Materials

WEEK 3: Human Impacts on Landforms and Water

Day #	Focused Topic	Activity (DepEd Competency as-is)
10	Landform Changes Over Time	Use evidence from secondary resources to describe how human activities have contributed to the modification of landforms and bodies of water of the Philippines since the Neolithic Period.
11	Case Studies on Modifications	Analyze mining, quarrying, deforestation, and irrigation changes.
12	Timeline of Changes	Construct a visual timeline from prehistory to modern-day impacts.
13	Effects on Ecosystems	Identify cascading impacts of land changes on biodiversity.

WEEK 4: Disaster Risks, PAGASA & PHIVOLCS Tools

Day #	Focused Topic	Activity (DepEd Competency as-is)
14	Risk Assessment	Assess geological and hydrometeorological hazards in terms of risks and prevention and mitigation strategies.
15	PAGASA's iHEAT Map	Describe how the PAGASA iHEAT maps provide Filipinos with knowledge to take proactive safety measures.
16	Disaster Mitigation Tools	Explore how PHIVOLCS tools are used for volcano/earthquake alerts.
17	Evaluating Tools and Practices	Compare effectiveness of available disaster risk tools.

Day 18: SUMMATIVE ASSESSMENT 2
Covers Weeks 3–4 (Days 10–17): Human Impacts & Hazard Monitoring Tools

WEEK 5: DRRM and Preparedness Planning

Day #	Focused Topic	Activity (DepEd Competency as-is)
19	Family Preparedness Planning	Develop family preparedness plans to prepare for, respond to, and recover from hazards.
20	Community DRRM Plans	Develop community-based disaster risk reduction and management plans.
21	Plan Simulation and Feedback	Mock drills and feedback loop on preparedness planning.
22	Peer Review and Improvement	Review each group’s plan based on clarity, feasibility, and accuracy.

WEEK 6: Integration and Performance Task Prep

Day #	Focused Topic	Activity
23	Role of PAGASA & PHIVOLCS	Evaluate their contributions in national disaster risk reduction efforts.
24	Performance Task Planning	Draft brochure plan promoting PAGASA and PHIVOLCS’ importance to local communities.

Day 25 (start of Week 7): SUMMATIVE ASSESSMENT 3
Covers Weeks 5–6 (Days 19–24): DRRM Strategies & Institutional Roles

WEEKS 7–8: PERFORMANCE TASK

Task: *Create a brochure to promote the importance of PAGASA and PHIVOLCS to the local community in understanding and mitigating geological and hydrometeorological hazards.*

Week	Focused Task	Activity
7	Brochure Development	Finalize layout, messaging, and design.
8	Presentation and Critique	Present brochure to class and reflect on clarity, accuracy, and real-life usefulness.