

PACE ACADEMY
DISASTER READINESS AND RISK REDUCTION
CURRICULUM GUIDE
SY 2020-2021

Most Essential Learning Competencies	Science Lessons
FIRST QUARTER	
Explain the meaning of disaster	Lesson 3.1 Introduction to Disaster Concepts
Differentiate the risk factors underlying disasters	
Describe the effects of disasters on one's life	
Identify areas/locations exposed to hazards that may lead to disasters	
Analyze disaster from the different perspectives (physical, psychological, socio-cultural, economic, political, and biological).	
Explain the meaning of vulnerability	Lesson 3.2 Concept of Vulnerability
Determine the elements that are exposed to a particular hazard	Lesson 3.3 Identify Exposed Elements
Recognize vulnerabilities of different elements exposed to specific hazards	Lesson 3.4 Identifying Specific Vulnerabilities
Differentiate among hazards, exposure, and vulnerabilities and give examples from actual situations.	Lesson 3.5 Introduction to Different Types of Hazards
Define and cite examples of the types of hazards	
Explain the impact of various hazards on different exposed elements	
Identify various potential earthquake hazards	Lesson 3.6 Potential Earthquake Hazards and their Effects
Analyze the effects of the different earthquake hazards	
Recognize the natural signs of an impending tsunami;	Lesson 3.7 Tsunami Signs
Interpret different earthquake hazard maps;	Lesson 3.8 Earthquake Hazard Maps
Explain various volcano-related hazards	Lesson 3.9 Different Type of Volcanic Hazards
Recognize signs of an impending volcanic eruption	Lesson 3.10 Signs of Volcanic Eruptions
Interpret different volcano hazard maps;	Lesson 3.11 Volcano Hazard Maps
Discuss the different geological hazards	Lesson 3.12 Landslides and Sinkholes
Analyze the causes of geological hazards	
Recognize signs of impending geological hazards;	Lesson 3.13 Interpreting Geohazard Maps
Interpret geological maps	
Apply mitigation strategies to prevent loss of lives and properties	Lesson 3.14 Precautionary and Safety Measures for Landslides
SECOND QUARTER	
Recognize signs of impending hydrometeorological hazards	Lesson 4.1 Different Types of Hydrometeorological Hazards
Interpret different hydrometeorological hazard maps	Lesson 4.2 Hydrometeorological Hazard Maps
Use available tools for monitoring hydrometeorological hazards	Lesson 4.3 Precautionary and Safety Measures for Hydrometeorological Hazards

Recognize elements of the fire triangle in different situations	Lesson 4.4 Fire Triangle
Analyze the different causes of fires	Lesson 4.5 Causes of Fires
Observe precautionary measures and proper procedures in addressing a fire incident	Lesson 4.6 Precautionary Measures and Proper Procedures for Fires
Apply basic response procedures during a fire incident	Lesson 4.7 Basic Response Procedure to Fires
Follow fire emergency and evacuation plans;	Lesson 4.8 Following Fire Emergency and Evacuation Plans
Discuss the key concepts, principles, and elements of DRR	Lesson 4.9 Concept, Principles, and Relevance of Disaster Risk Reduction Lesson
Recognize the importance of DRR on one's life	
Discuss different community-based practices for managing disaster risk to specific hazards	Lesson 4.10 Community-based Disaster Risk Reduction Management
Develop a community preparedness plan;	Lesson 4.11 Community Preparedness Plan
Prepare survival kits and materials for one's family and for public information and advocacy	Lesson 4.12 Survival Kit
Explain DRR-related laws and policies	Lesson 4.13 The Philippine Disaster Risk Reduction and Management Law

Reference:

Commission on Higher Education. (2016). Teaching Guide for Senior High School Disaster Readiness and Risk Reduction. Quezon City.

Time Allotment: Two (2) synchronous sessions (40 minutes per session); Five (5) asynchronous sessions (40 minutes per session)

Promotion/Retention:

- Assessments will be categorized as the following with the corresponding weight:
 - Short Quizzes (20%)
 - Written Outputs (35%)
 - Product and Performance Tasks (45%)
- Short Quizzes.** These include summative assessments after every lesson, group of related lessons, or chapter.
- Written Outputs.** These include concept maps, data recording and analyses, laboratory reports and documentations, reaction/reflection papers, article reviews, and surveys.
- Product and Performance Tasks.** These include portfolios, investigatory projects, models and diagrams construction, prototype building, research papers, debates, designing and implementation of action plans, designing various models, doing scientific investigations, issue-awareness campaigns, laboratory activity, multimedia presentations, simulation, skills demonstration, and verification experiments.