

**PACE ACADEMY
SCIENCE 5
CURRICULUM GUIDE
S.Y. 2020-2021**

Most Essential Learning Competencies	Science Lessons
FIRST QUARTER	
Use the properties of materials whether they are useful or harmful	Lesson 1.1 Properties of Materials
Investigate the changes that happen in materials under the following conditions: - presence of oxygen - application of heat	Lesson 1.2 Changes in Matter
Design a product out of local, recyclable, solid and/or liquid materials in making useful products	Lesson 1.3 Minimizing Waste
Describe the parts of the reproductive system and their functions	Lesson 1.4 Reproductive System of Humans
Explain the menstrual cycle	Lesson 1.5 Changes During Puberty
Describe the different modes of reproduction in animals such as butterflies, mosquitoes, frogs, cats, and dogs	Lesson 1.6 Sexual Reproduction
	Lesson 1.8 Asexual Reproduction
SECOND QUARTER	
Describe the reproductive parts in plants and their functions	Lesson 2.1 Parts of a Flower
	Lesson 2.2 Sexual Reproduction in Plants
Describe the different modes of reproduction in flowering and non-flowering plants such as moss, fern, mongo and others	Lesson 2.3 Asexual Reproduction in Flowering Plants
	Lesson 2.4 Reproduction in Nonflowering Plants
Discuss the interactions among living things and nonliving things in estuaries and intertidal zones	Lesson 2.5 Estuaries and Intertidal Zones
	Lesson 2.6 Interactions in Estuaries and Intertidal Zones
Explain the need to protect and conserve estuaries and intertidal zones	Lesson 2.7 Protecting Estuaries and Intertidal Zones

THIRD QUARTER	
Describe the motion of an object by tracing and measuring its change in position (distance travelled) over a period of time	Lesson 3.1 What is Motion?
	Lesson 3.2 Speed
Relate the ability of the material to block, absorb, or transmit light to its use	Lesson 3.3 Light
Discuss why some materials are good conductors of heat and electricity	Lesson 3.4 Heat
	Lesson 3.5 Electricity
Determine the effects of changing the number or type of components in a circuit	Lesson 3.6 Simple Electric Circuits
Design an experiment to determine the factors that affect the strength of the electromagnet	Lesson 3.8 Electromagnets
FOURTH QUARTER	
Describe how rocks turn into soil Investigate extent of soil erosion in the community and its effects on living things and the environment	Lesson 4.1 Weathering and Soil Erosion
Characterize weather disturbances in the Philippines and describe their effects to daily life	Lesson 4.2 What is a Tropical Cyclone?
	Lesson 4.3 Effects of Tropical Cyclones
Infer the pattern in the changes in the appearance of the Moon	Lesson 4.4 The Moon
	Lesson 4.5 Phases of the Moon
Identify star patterns that can be seen at particular times of the year	Lesson 4.6 Constellations

Reference: *The Scientist in Me 5* (2019). Penerbitan Pelangi Sdn. Bhd. Rex Book Store, Inc.

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.