

**PACE ACADEMY
SCIENCE 4
CURRICULUM GUIDE
S.Y. 2020-2021**

Most Essential Learning Competencies	Science Lessons
FIRST QUARTER	
Classify materials based on the ability to absorb water, float, sink, undergo decay	Lesson 1.1 Properties of Materials
Describe changes in solid materials when they are bent, pressed, hammered, or cut	Lesson 1.2 Changes in Solid and Liquid Materials
Describe changes in properties of materials when exposed to certain conditions such as temperature or when mixed with other materials	Lesson 1.3 Changes that Occur
Identify changes in materials whether useful or harmful to one's environment	Lesson 1.4 Effects of Changes in Materials
SECOND QUARTER	
Describe the main function of the major organs	Lesson 2.1 Main Functions of the Major Organs and How They Work Together
Communicate that the major organs work together to make the body function properly	
Infer that body structures help animals adapt and survive in their habitat	Lesson 2.2 Adaptive Body Structures of Animals Lesson 2.3 Movement of Animals
Identify the specialized structures of terrestrial and aquatic plants	Lesson 2.4 Terrestrial and Aquatic Plants Lesson 2.5 Specialized Structure in Plants
Compare the stages in the life cycle of organisms	Lesson 2.6 Life Cycle of Humans Lesson 2.7 Life Cycles of Animals Lesson 2.8 Life Cycles of Plants
THIRD QUARTER	
Describe the effect of the environment on the life cycle of organisms	Lesson 3.1 Effects of the Environment
Describe some types of beneficial and harmful interactions among living things	Lesson 3.2 Interactions Among Living Things
Describe the effects of interactions among organism in their environment	
Explain the effects of force when applied to an object	Lesson 3.3 Effects of Forces
Characterize magnetic force	Lesson 3.4 Magnetic Force
Describe how light, sound, and heat travel	Lesson 3.5 Light
Investigate properties and characteristics of light and sound	Lesson 3.6 Heat Lesson 3.7 Sound
FOURTH QUARTER	
Compare and contrast the characteristics of different types of soil	Lesson 4.1 Types of Soil

Explain the use of water from different sources in the context of daily activities	Lesson 4.2 Sources and Importance of Water
Trace and describe the importance of the water cycle	Lesson 4.3 The Water Cycle
Use weather instruments and describe the different weather components in a weather chart	Lesson 4.4 Components of Weather
Identify safety precautions during different weather conditions	Lesson 4.5 Safety Precautions During Different Weather Conditions
Describe the changes in the position and length of shadows in the surroundings as the position of the Sun changes	Lesson 4.6 Changes in the Position of the Sun in the Sky
Describe the effects of the Sun to human activities	Lesson 4.7 Effects of the Sun

Reference: *The Scientist in Me 4* (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.