



Course Description

Subject: Science 3

Code: SC 13101

3 Periods / Week

3.0 Credits

Class: Primary 3A-B

Semester: 1-2/2014

Instructor: Mr. Elbert, Ms. Pornthip

Unit	Standard	Indicators
1.life and environment 1.1 Heredity 1.2 Extinct and Endangered Animal. 1.3 Habitats and Ecosystems	SC 1.2 SC 2.2	P3/1.Discuss various characteristics of living thing in the immediate environment. P3/2.Compare and specify similar characteristics of parents and children. P3/3.explain that the similar characteristics of parent and children originate from genetic transmission and apply the knowledge gained for useful purposes. P3/4.Search for data and discuss kinds of extinct living thing and kind that exist in the parent. P3/1 Explore the environment in the local area and explain the relationship between living thing and the environment.
2.Resources and Materials 2.1Earth's Resources 2.2Materials and Their Properties 2.3Changing Matter	SC 2.2 SC 3.1	P3/1.Explore natural resources and discuss utilization of local natural resources. P3/2.Specify utilization of natural resources conducive to creating local environmental problems. P3/3.Discuss and present ideas for economical and cost effective utilization of natural resources and participate in the practice. P3/1.classify the kinds and properties of materials that are components of toys and articles of everyday use. P3/2.Explain utilization of each kind of material for use for purposes.

<p>3. Forces and Motion</p> <p>3.1 Forces and Motion</p> <p>3.2 Types of Forces</p>	<p>SC 3.2</p> <p>SC 4.1</p>	<p>P3/1.Experiment and explain effect of change in object when a force acts on them or upon heating and cooling</p> <p>P3/2.Discuss benefits and detriments that may arise due to changes in the object.</p> <p>P3/1.Experiment and explain effects of forces acting on object.</p> <p>P3/2.Experiment the falling of objects on the Earth surface and explain the Earth attractive forces for the objects.</p>
<p>4. Electricity Production and safety.</p> <p>4.1Electricity Production.</p> <p>4.2 Using Electricity.</p>	<p>SC 5.1</p>	<p>P3/1Identify natural energy sources utilized for producing electricity.</p> <p>P3/2Explain the importance of electrical energy and propose economical and safe methods for utilizing electricity.</p>
<p>5.. Water and air</p> <p>5.1Water on Earth</p> <p>5.2Air and the Atmosphere</p>	<p>SC 6.1</p>	<p>P3/1.Explore and explain physical properties of water from sources in the local area and apply the knowledge gained for useful purposes.</p> <p>P3/2.search for data and discuss the components of air and the importance of air.</p> <p>P3/3.Experiment and explain the motion of air resulting from differences in temperature.</p>

Measurement and Evaluation

Total 100 Marks (Assessment 60 marks: Midterm test /Final test 40 marks)

Measurement and Evaluation	Assessments/ Evaluation	Assessments tool	Marks	Standard: Indicator
1.Pre –midterm	1.Observation 2. Asking and answering question 3.Workbook	1.Assessments tool for Observation 2.Asking and answering question 3.Workbook	25	(Term1)Sc1.2 Indicator: P.3/1,P3/2,P3/3,P3/4 Sc2.1 Indicator: P.3/1
				(Term2) Sc3.2 Indicator: P.3/1,P.3/2 Sc4.1 Indicator: P.3/1,P3/2
2.Midterm test	Examination	Test paper	20	(Term1)Sc1.2 Indicator: P.3/1,P3/2,P3/3,P3/4 Sc2.1 Indicator: P.3/1
				(Term2) Sc3.2 Indicator: P.3/1,P.3/2 Sc4.1 Indicator: P.3/1,P3/2
3.Post midterm	1.Observation 2. Asking and answering question 3.Workbook	1.Assessments tool for Observation 2.Asking and answering question 3.Workbook	25	(Term1)Sc2.2 Indicator: P.3/1,P.3/2,P3/3 Sc3.1 Indicator: P.3/1,P.3/2
				(Term 2) Sc5.1 Indicator: P.3/1,P.3/2 Sc6.1 Indicator: P3/1,P.3/2,P.3/3

Measurement and Evaluation	Assessments/ Evaluation	Assessments tool	Marks	Standard: Indicator/Outcome
4.Final	Examination	Test paper	20	(Term1)Sc2.2 Indicator: P.3/1,P.3/2,P3/3 Sc3.1 Indicator: P.3/1,P.3/2
				(Term 2) Sc5.1 Indicator: P.3/1,P.3/2 Sc6.1 Indicator: P3/1,P.3/2,P.3/3
5.Desirable Characteristics	1.Participation 2.Behavior	1.Assessments tool for Behavior 2.Observation	10	-
6.Competencies	Observation	1.Assessments tool for Observation 2.Asking and answering question	-	1.Communication Capacity 2. Thinking Capacity 3.Problem solving capacity 4.Capacity for applying life skills 5.Capacity for technological application
7.Read/thinking	Science project	1.Assessments tool for Science Project	-	Sc8.1 Indicator: P3/1,P3/2,P3/3,P3/4,P3/5,P3/6 P3/7,P3/8

คุณลักษณะอันพึงประสงค์ 10 ข้อ

1. รักชาติ ศาสน์ กษัตริย์
2. ซื่อสัตย์สุจริต
3. มีวินัย
4. ใฝ่เรียนรู้
5. อยู่อย่างพอเพียง
6. มุ่งมั่นในการทำงาน
7. รักความเป็นไทย
8. มีจิตสาธารณะ
9. ปลอดภัยเสพติดและอบายมุข
10. มีความเป็นผู้นำและกล้าแสดงออก

สมรรถนะ 5 ข้อ

1. ความสามารถในการสื่อสาร
2. ความสามารถในการคิด
3. ความสามารถในการแก้ปัญหา
4. ความสามารถในการใช้ทักษะชีวิต
5. ความสามารถในการใช้เทคโนโลยี