



Course Description

Subject: Science 4

Code: SC14101

3 Periods / Week

3.0 Credits

Class: Primary 4A-B

Semester 1-2/2014

Instructor: Mr. Elbert, Ms. Pornthip

Unit	Standard	Indicators
1. Health and Nutrition 1.1 food and health 1.2 The Healthy Food Pyramid 1.3 Eating Appropriately 1.4 Food Additives	Sc 1.2	P4/1. Explain human growth from birth to adulthood. P4/2. Analyses nutrients and discuss body requirements for nutrients in proportions suitable to gender and age.
2. the Solar System and light 2.1 The solar system and beyond 2.2 Light	Sc5.1	P4/1. Experiment and explain motion of light from its source. P4/2. Experiment and explain reflection of light on object. P4/3. Experiment and classify object based on visual characteristics from sources of light. P4/4. Experiment and explain refraction of light that passes through two kinds of transparent mediums. P4/5. Experiment and explain transformation of light into electrical energy and apply the knowledge gained for useful purposes. P4/6. Experiment and explain that white light comprise various colored lights and apply the knowledge gained for useful purposes.
	Sc7.1	P4/1. observe and explain the rising and setting of the sun, moon causes of day night and setting of direction. P4/2. Make a model to explain characteristics of solar system.
Semester 2/2014		
3. Living Plants 3.1 Plant Parts and Plant Need 3.2 Classifying Plant	Sc 1.1	P4/1. Experiment and explain function of bundle and stomas of plant. P/2. Experiment and explain that water carbon dioxide, light and chlorophyll are some of factors essential for growth and photosynthesis. P4/3. Experiment and explain functions of essential components plant and animal cell.
4. Living animals 4.1 Animal Need 4.2 classifying Animal 4.3 Endangered and Extinct Animals	Sc 1.1	P4/4. Explain behaviour of animals responding to light temperature and touch and apply acquired knowledge for useful purposes.
5. About our Earth 5.1 Earth Structure And Processes 5.2 Rock Soil Fossils	Sc 6.1	P4/1. Explore experiment and explain formation of clouds mist dew rain and hail P4/2. Experiment and experiment and explain formation of the water cycle. P4/3. Design and make simple instruments for measuring temperature humidity and air pressure. P4/4. Experiment and explain formation of wind and apply the knowledge gained for useful purposes.

Measurement and Evaluation 1-2/2014

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

Measurement and Evaluation	Evaluation Method	Assessments tool	Marks	Standard: Indicators
1.Pre –midterm	1.Observation 2.Asking and answering question Workbook	1.Assessments tool for Observation 2.Asking and answering question Workbook	25	(Term1) Sc 1.2 P.4/1,P4/24 Sc 5.1 P.4/1 P.4/2,P4/3,P4/4, P4/5,P4/6
				(Term2) Sc1.1 P.4/4
2.Midterm	Midterm Examination	Midterm Exam	20	Sc 1.2 P.4/1,P4/24 Sc 5.1 P.4/1 P.4/2,P4/3,P4/4 P4/5,P4/6
				(Term2) Sc1.1 P.4/4
3.Post- Midterm	Observation, Asking and answering question Workbook	Assessments tool for Observation Asking and answering question Workbook	25	(Term1) Sc1.1 P.4/1,P.4/2,P4/3
				(Term 2) Sc 6.1 P.4/1,P.4/2,P4/3,P.4/4
4.Final	Final Examination	Final Exam	20	(Term1) Sc1.1 P.4/1,P.4/2,P4/3
				(Term 2) Sc 6.1 P.4/1,P.4/2,P4/3,P.4/4
5.Desirable Characteristics	Participation, Behavior	Assessments tool for Behavior Observation	10	1.Love of nation, religion and king 2.Honesty and integrity 3.Self discipline 4.Avidity for learning 5.Observance of Principles of Sufficiency Economy Philosophy in one’s way of life 6. Dedication and commitment to work 7.Cherishing Thai-ness 8.Leadership 9.Public-mindedness 10. Being free from drugs
6.Competencies	1 Observation	Assessments tool for Observation	-	1.Communication Capacity

		Asking and answering question		2. Thinking capacity 3. Problem solving capacity 4. Capacity for applying life skills 5. Capacity for technological application
7. Read/thinking	Science project	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

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

สมรรถนะ 5 ข้อ

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