Learning Group: <u>Mathematics</u>　　　　**Subject code**　　　　**Subject:　<u>Math</u>**
Year Level: <u>10</u>　　　　　　**Total: <u>1.0</u> credit**

No.	Topics	Contents	Objectives	Reference
1	Trigonometric ratios	1.1 The definitions of sine, cosine and tangent 1.2 Sine and how to use it to solve problems 1.3 Cosine and how to use it to solve problems 1.4 Tangent and how to use it to solve problems 1.5 Sine A = Cosine B when A and B are complementary angles 1.6 Applications of sine, cosine and tangent altogether in word problem solving 1.7 The sine rules 1.8 The cosine rules	• By the end of this chapter, students should be able to ➢ Write correct definitions of sine, cosine and tangent ➢ Solve problems using sine correctly ➢ Solve problems using cosine correctly ➢ Solve problems using tangent correctly ➢ Solve problems involving sine A and ➢ cosine B when A+B = 90 degrees ➢ Solve word problems regarding all of the three ratios ➢ Solve problems on sine rules ➢ Solve problems on cosine rules	

Learning Group: <u>Science</u> **Subject code** **Subject: <u>Biology</u>**
Year Level: <u>10</u> **Total: <u>1.0</u> credit**

Chapter/ Unit	Topics	Contents	Objectives	Reference
6	Non-Mendelian Genetics	6.1 Incomplete Dominance 6.2 Codominance 6.3 Multiple alleles 6.4 Sex-linked Inheritance 6.5 Mutaions and Chromosomal Abnormalities	• By the end of this chapter, students should be able to ➢ Describe and explain the following: ➢ Incomplete Dominance ➢ Codominance ➢ Multiple Alleles ➢ Sex-linked Inheritance ➢ Mutations ➢ Chromosomal Abnormalities	Biology Module Pages 13-21

Chapter/Unit	Topics	Contents	Objectives	Reference

1	Contact and Interaction	1.1 Trade
		1.2 'Direct trade' and 'Indirect trade'
		1.3 Political contacts
		1.4 Political envoys
		1.5 Religious contacts
		1.6 'Missionaries' and 'Pilgrims'
		1.7 Effects of contacts and interactions in Southeast Asia
			• By the end of this chapter, students should be able to
			  ➢ Define the term 'interaction'.
			  ➢ List the advantages and disadvantages of having interaction.
			  ➢ Differentiate direct trade from indirect trade
			  ➢ Define the term 'envoy'.
			  ➢ Understand the importance of having envoys.
			  ➢ Identify the different types of religious contacts.
			  ➢ Define the term 'missionary' and 'pilgrims'
			  ➢ Define trading contacts and understand the impact of contact on Southeast Asia.	

2	Threats and Responses	2.1 Types of threats
		2.2 Examples of external threats and internal threats
		2.3 External threats
		  o Natural disasters
		  o Attacks by other countries
		  o Trade rivalry
		2.4 Internal threats
		  o How internal factors affected Indus Valley
		2.5 Other internal factors that weakens governments:
		  o Weak government
		  o Corrupt and incompetent governments
		  o Problems with succession
		  o A trouble free succession
		  o A failed succession
		  o Rebellion
		  o Civil war
			• By the end of this chapter, students should be able to
			  ➢ Understand the term 'contact' and 'interaction'
			  ➢ Identify the reasons why people made contact.
			  ➢ Identify the features of 'hostile contact' and 'peaceful contact'.
			  ➢ Compare the impact of the two types of contact on countries.
			  ➢ Define the term 'interaction.
			  ➢ List the advantages and disadvantages of having interaction.	