The Yuen Yuen Institute MFBM Nei Ming Chan Lui Chung Tak Memorial College S1 Cross Curricula Learning –

Mapping English with Mathematics and Integrated Science Core items to be learnt

Topic: Get to know things around me (Week 1 - Week 4)

1) Language Function: Imperatives

Mathematics		Integrated Science	
Unit 0 Basic Arithmetic		Chapter 1 Beginning Science	
KEYT		TERMS	
natural numbers		science (n)	
whole numbers		experiment (n)	
even numbers		hypothesis (n)	
odd numbers		measure (v)	
factors		analyse (v)	
fraction		observe (v)	
		record (v)	
	LANGUAGE S	STRUCTURES	
subtract from		Keep	
add to		Do	
divide by		Do not	
times/,		Follow	
Find the sum / difference / product / quotient		Draw a conclusion	
of / value of			
Convert			
Reduce			

Topic: Get to know things around me (Week 5 - Week 7)

2) Language Function: Description

Mathema	ntics	Integrate	d Science
Unit 1 Directed numbers and the number line		Chapter 2	
		Working in the science lal	boratory
	KEY T	TERMS	
directed number (n)		laboratory	
positive (adj)		equipment	
negative (adj)		test tube	
vertical line (n)		beaker	
ascending (adj)		apparatus	
descending (adj)		dropper	
		measuring cylinder	
		temperature	
		toxic	
		harmful	
LANGUAGE STRUCTURES			
Find the values of		There is	
Complete the following There are			

Topic: Get to know things around me (Week 8 - Week 10)

3) Language Function: Making Comparisons

Mathematics		Integrated Science	
Unit 3 Algebraic Equations		Chapter 4 Looking at organisms	
	KEY T	TERMS	
equation		grow (v)	
unknown		reproduce (v)	
solution		detect (v)	
root		react (v)	
values		breathe (v)	
simplify		criteria (n)	
expand		determine (v)	
solve			
	LANGUAGE S	STRUCTURES	
is greater than		It has / gives / produces	
is less than		It is different from/ the same as	
the difference between	en	Like, it also	
		Both and have	
		can ,but can't	
		needs	

Topic: Get to know things around me (Week11 – Week 13)

4) Language Function: Making Comparisons

Mathematics		Integrated Science	
Unit 4 Percentages		Chapter 5 Sorting living things	
	KEY T	TERMS	
increase		sort (v)	
percentage increase		classify (v)	
decrease		identify (v)	
cost price		characteristics (n)	
selling price		features (n)	
profit		reduce	
loss		reuse	
marked price		recycle	
discount		replace	
	LANGUAGE S	STRUCTURES	
If, what is?		Sorting into	
is reduced to		are called	
		based on	
		are divided into	
What would happen to if		to if	

Topic: Changes over time (Week 14 – Week 16)

5) Language Function: Showing trends / making changes

Mathematics		Integrated Science	
Unit 5 Estimation in numbers and measurement		Chapter 6 Living things	in danger
	KEYT	ERMS	
approximate value		habitat	
estimate		classified	
estimation strategy		endangered species	
degree of accuracy		conservation	
error		pollution	
compatible numbers		environment	
counting		impacts	
benchmark		wildlife	
measured value			
actual value			
diameter			
LANGUAGE STRUCTURES			
is greater than			
is less than			

Measurement	Unit
Length	mm, cm, m, km
Area	mm, cm, m, km
Volume/capacity	mg, g, kg
Time	s, min, h, day, month, year

Topic: Changes over time (Week 17 – Week 22)

6) Language Function: Showing sequence and order

Mathematics		Integrated Science	
Unit 6		Chapter 7 and 8 Cells and human production	
Introduction to (Geometry		
	KEY T	TERMS	
straight line		microscope (n)	
curved line		magnify (v)	
parallel line		diminish (v)	
interior angle		grow (v)	
circumference		divide into (v)	
radius		reproduce (v)	
	LANGUAGE S	STRUCTURES	
		is made up of	
		are formed	
		It develops into	
		It changes from to	
It takes days to			
First, / Next,, Lastly,/ After that		stly,/ After that,	

Plane	figures	Sol	lids
triangle	trapezium	cube	cylinder
square	polygon	cuboid	circular cone
rectangle	circle	prism	sphere
parallelogram		pyramid	

Topic: changes over time (Week 23 – Week 26)

7) Language Function: Talking about sequence and order

Mathemat	ics	Integrate	d Science
Unit 7		Chapters 10 - 11	
Symmetry and Transformation		Forms of energy and ener	gy sources
	KEY T	TERMS	
symmetry		source (n)	
axis		need (v)	
rotate		produce (v)	
centre		convert (v)	
halves		store (v)	
image		save (v)	
reflect		waste (v)	
transformation		energy (n)	
clockwise / anti-clockwise		fossil fuels (n)	
reduce / enlarge		energy conversion (n)	
scale factor		coal (n)	
		natural gas (n)	
		electricity (n)	
		generate (v)	
	LANGUAGE S	STRUCTURES	
Which of the following		modal verbs: can, need, should	
List		convert to / into .	
Draw		change from to/in	ito
Name		when	
If becomes, find the va	lue		

Topic: (Week 27 – Week 32)

3) Language Function: Giving advice

Mathe	matics	Integrated Science	
Unit 8 Areas a	nd Volumes (1)	Chapter 12	
		Issues related to the use of energy	
	KEY T	ERMS	
base		(non) -renewable energy	
height		sources	
lateral face		air pollution	
total surface area		global warming	
capacity		green house effect	
volume		acid rain (n)	
perimeter		affect (v)	
		alternative (adj)	
		cause (v)	
		produce (v)	
	LANGUAGE S	STRUCTURES	
It is known that		is mainly used	
		is caused by	

Topic: Leisure and Entertainment (Week 33 – Week 37)

3) Language Function: Making Comparison

Mathematics		Integrated Science	
Unit 9 Congruence and Similarity		Chapter 13	
		Making w	rater clean
	KEY T	TERMS	
congruent figures		contains	
corresponding triangles		condenses	
corresponding angles		collects	
corresponding sides		remove	
similar figures		list	
		filter	
		residue	
	LANGUAGE STRUCTURES		
have the same		makes up	
are similar		used for	

Topic: Leisure and Entertainment (Week 37 – Week 41)

3) Language Function: Reporting figures

Mathematics		Integrated	Science
Unit 13 and 14 Simple Statistical Diagrams and		Chapter 15	
Graphs		Water shortage and	water pollution
KEY T		TERMS	
data		analyse (v)	
statistics		resources (n)	
observation		findings (n)	
interview		restrict (v)	
questionnaire		sewage (n)	
frequency		discharge (n)	
discrete		measures (n)	
numerical		treatment (n)	
construct		control (v)	
categories			
	LANGUAGE	STRUCTURES	
What is the title?		It is found that	
How many?		It is shown that	
In which year?		It is reported that	
On which day?			
Estimate the number	Estimate the number		
Predict the trend			