Baldragon Academy

Mathematics

Course Plan

Seniors

National 4

Term 1a - June

24 Periods (based on 4 weeks at 6 periods per week)

Revision of CfE Level 3 for Numeracy Assessment

Numeracy Revision

Learning Intention To be able to –	Periods
Calculate percentage of a value, increase and decrease	3
Foreign Exchange	2
Calculate time intervals & complete timetables	2
Calculate decimal of hours from hours and minutes	2
Calculate Speed Distance Time (part hours)	2
Calculate the perimeter of a shape (basic and composite)	2
Homework on	Total 13

Revise and complete questions 1-6 of Numeracy Assessment.

Term 1b

August – October

48 Periods (based on 8 weeks at 6 periods per week)

Numeracy Revision - continued

Learning Intention. To be able to -	Periods
Solve problems using weights in grams and kilograms	1
Measure lines and angles	1
Solve problems using ratio	2
Solving problems using negative numbers in context	1
Reading Tables	1
Understanding pie charts	2
Calculating Probability	2
	Total 10

Revision – Complete Numeracy Assessment (5 periods)

Expressions and Formulae – Part 1

Learning Intention. To be able to -	Periods
Multiply and simplify algebraic terms involving a bracket.	3
Factorising using a numerical common factor	3
Collecting Terms	3
Patterns in Diagram form – determine and use formula	4
Calculate the gradient of a slope & line	3
Calculate the circumference of a circle (with diameter and radius)	4
Area of 2D shapes (triangles and quadrilaterals)	5
	Total 25

Revise – 5 periods

Part 1 and do questions 1-8 of Expressions and Formulae

Term 2

October – December

48 Periods (based on 8 weeks at 6 periods per week)

Expressions and Formulae – Part 2

Learning Intention. To be able to -	Periods
Calculate the surface area of a prism	4
Calculate the volume of a prism	4
Produce rotationally symmetrical shapes (on a plane and in a coordinate grid)	5
Generate frequency tables (un-grouped and grouped data)	4
Calculate mean, median, mode and range of a data set	3
Generating pie charts	3
Calculate probability of an event	2
	Total 25

Revise – 5 Periods

Part 2 and do remaining questions of Expressions and Formulae

Relationships – Part 1a

Learning Intention. To be able to -	Periods
Drawing and recognising a graph of a linear equation.	6
Solving Equations	6
	Total 12

Term 3

January – March

55 periods (based on 11 weeks at 5 periods a week)

Relationships – Part 1b

Learning Intention. To be able to -	Periods
Solve inequalities	2
Change subject of an equations	3
Use Pythagoras' Theorem	4
Use a fractional scale factor to enlarge or reduce a shape	3
Using parallel lines, symmetry and circle properties to calculate angles	4
	Total 16

Revise – 5 Periods

Part 1 and do question 1-8 of Relationships

Relationships – Part 1b

Learning Intention. To be able to -	Periods
Trigonometry	8
Generate a scatter graph, line of best fit and interpret	5
	Total 13

Revise – 5 Periods

Part 2 and do remaining questions of Relationships

Revise for the AVU assessment

Do any resits