

Business
Studies



S5 Parent Information Evening

• Thursday 8th September 2016 •

Computing
Science



• Expectations in
curricular area
- Mathematics •

Maths
and
Numeracy

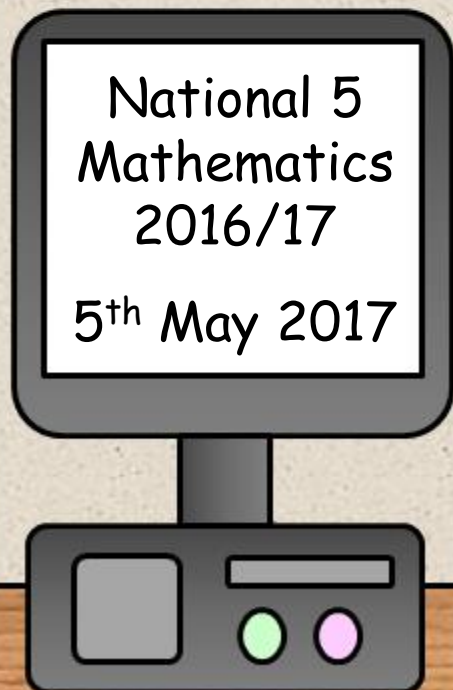
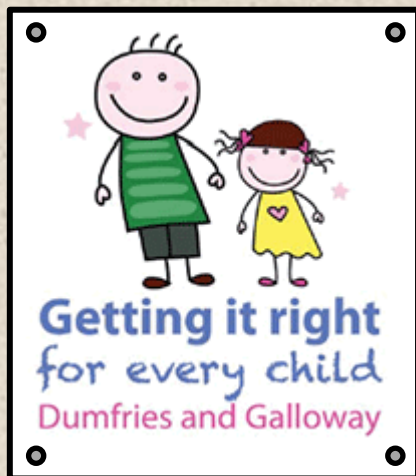


Admin



• D. Ferla •

• Maths 1 •



238 Days to go!

1. Expressions & Formulae
2. Relationships
3. Applications

****4th year of implementation****

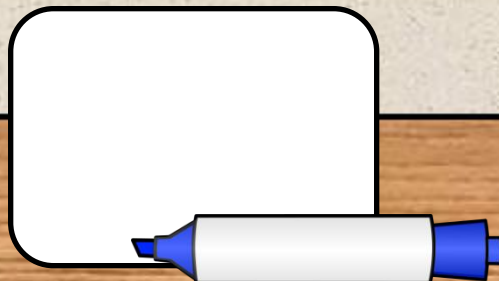
Course Assessment Structure

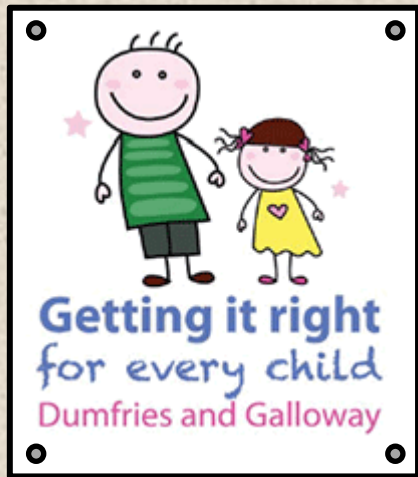
- Assessment standard by assessment standard
- Unit assessments are "C level" standard
- One resit available

Final Exam

Paper 1 (non-calc)	1 hr	(40 marks)
Paper 2 (calc)	1 hr 30 mins	(50 marks)

****70% = A, 60% = B, 50% = C, 44% = D****





238 Days to go!

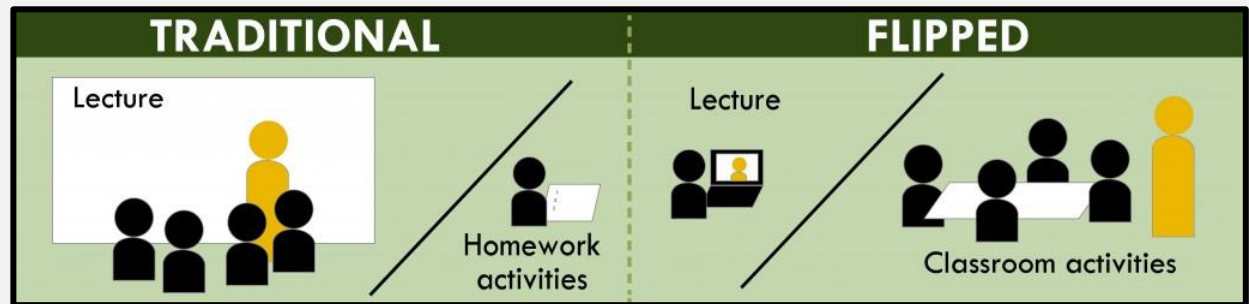
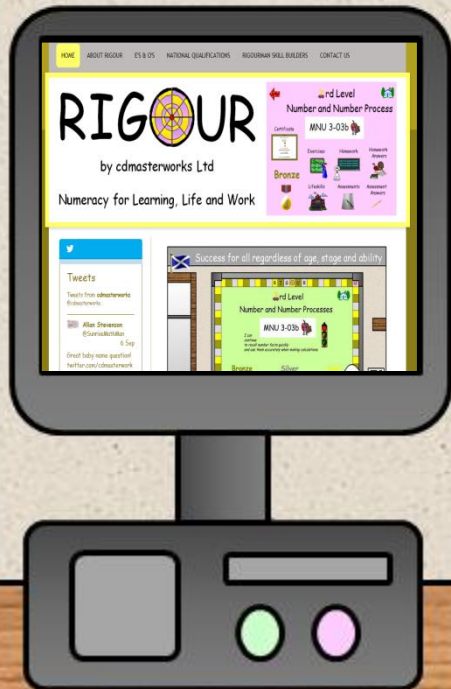
Homework

- A mixture of formal and "finishing off"

After School Club (for National 5)

- Every Wednesday from 3.30 - 4.30pm
- With Mr. Ferla in (Maths) room 1

****EXTENSIVE online support available****




The 'Flipped'
Classroom




RIGOUR

by cdmasterworks Ltd

Numeracy for Learning, Life and Work




3rd Level




Number and Number Process


Certificate




MNU 3-03b



Exercises




Homework




Homework Answers




Bronze




Lifeskills



Assessments



Assessment Answers



- National 3 Lifeskills
- National 4 Mathematics
- National 5 Mathematics
- CfE Higher

Password protected area

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Your password:




RIGOUR


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Numeracy for Learning, Life and Work


← **3rd Level** 


Number and Number Process


MNU 3-03b 


Certificate 

Bronze 

Exercises 



Homework 

Homework Answers 

Lifeskills 

Assessments 











Assessment Answers 

N5 EF 1.1a B Ex 3.1  Exercise 3  Bronze Level

Outcome 1

Simplifying Surds

Simplify the following surds...

 $\sqrt{27}$	 $\sqrt{160}$
 $\sqrt{125}$	 $\sqrt{32}$
 $\sqrt{192}$	 $\sqrt{63}$
 $\sqrt{162}$	 $\sqrt{108}$
 $\sqrt{242}$	 $\sqrt{243}$

Examples...

You need to know the perfect square numbers to simplify a surd!

1, 4, 9, 16, 25, 36, 49, 64, 81, 100, ...

$\sqrt{45} = \sqrt{9 \times 5}$
 $= 3\sqrt{5}$

$\sqrt{98} = \sqrt{49 \times 2}$
 $= 7\sqrt{2}$

****Think of the BIGGEST perfect square number that divides into 45****

1. $\frac{3}{3}$	2. $\frac{4}{10}$
3. $\frac{5}{5}$	4. $\frac{4}{2}$
5. $\frac{8}{3}$	6. $\frac{3}{7}$
7. $\frac{9}{2}$	8. $\frac{6}{3}$
9. $\frac{11}{2}$	10. $\frac{9}{3}$

RIGOUR © cdmasterworks

1.1a - Working with Surds...

For further practice please feel free to download the following worksheet. Your teacher will be able to show you the solutions.



N5 EF 1.1 B Wk 3.pdf

Adobe Acrobat document [854.0 KB]

If you feel you have mastered these skills why not try this short assessment under exam conditions? Remember to record the score in your profile!



N5 EF 1.1 B Ass 3.pdf

Adobe Acrobat document [847.3 KB]

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Numeracy for Learning, Life and Work

 **3rd Level** 

Number and Number Process

Certificate  **MNU 3-03b** 

Exercises 	Homework 	Homework Answers 
Lifeskills 	Assessments 	Assessment Answers 

Bronze 

> 2nd Level Numeracy

> 2nd Level Maths

> 3rd Level Numeracy

> 3rd Level Mathematics

> 4th Level Numeracy

> 4th Level Mathematics

 **2nd Level
Numeracy**

 **2nd Level
Maths**

 **3rd Level
Numeracy**

 **3rd Level
Maths**


 **4th Level
Numeracy**

 **4th Level
Maths**

RIGOUR

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Numeracy for Learning, Life and Work

← **3rd Level** 

Number and Number Process

MNU 3-03b 

Certificate 

Bronze 

Exercises 



Homework 

Homework Answers 

Lifeskills 

Assessments 

Assessment Answers 











MTH 306a B Ex 5 **RIGOUR**  

MTH 3-06a **Exercise 5** **Bronze Level**

Having explored the notation and vocabulary associated with whole number powers and the advantages of writing numbers in this form, I can evaluate powers of whole numbers mentally or using technology.

Outcome 1
Squaring a Number...

Square the following numbers...

 5^2	 1^2
 4^2	 2^2
 7^2	 6^2
 9^2	 10^2
 13^2	 11^2

Examples...

$3^2 = 3 \times 3 = 9$ (NOT 6!)

$8^2 = 8 \times 8 = 64$ (NOT 16!)

$12^2 = 12 \times 12 = 144$ (NOT 24!)

RIGOUR

Powers & Roots...

Here is a bronze homework for a bit of good old fashioned rigour...try timing yourself!



[MTH 306a B Hw 5.pdf](#)

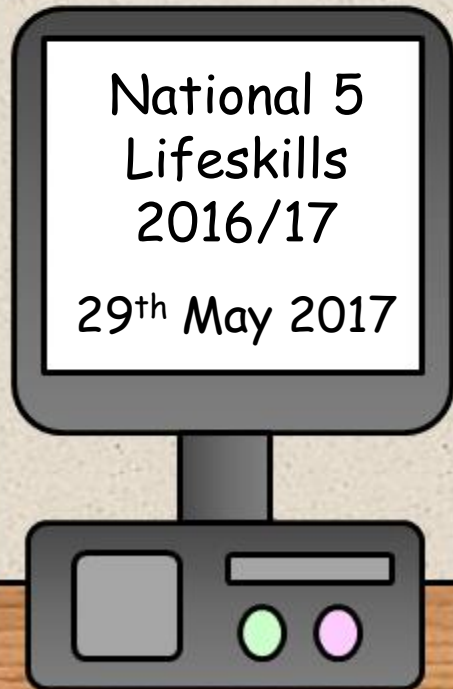
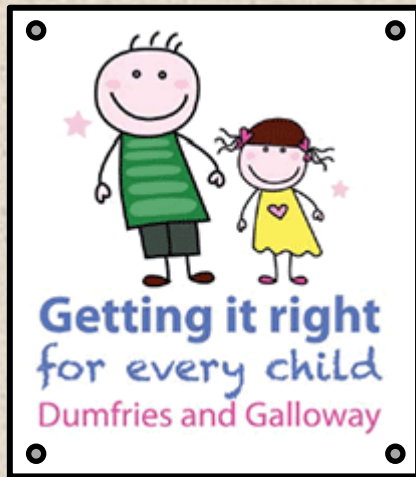
Adobe Acrobat document [849.5 KB]

Test your knowledge with this bronze assessment...



[MTH 306a B Ass 5.pdf](#)

Adobe Acrobat document [852.1 KB]



262 Days to go!

1. Geometry & Measures
2. Managing Finance & Statistics
3. Numeracy

****2nd year of implementation****

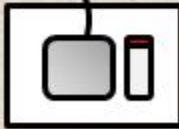
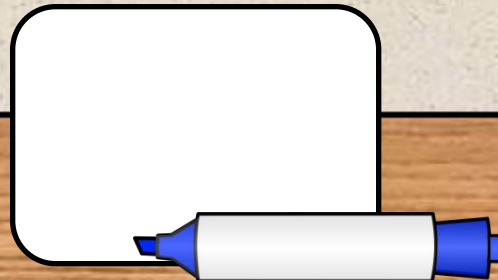
Course Assessment Structure

- Assessment standard by assessment standard
- Unit assessments are "C level" standard
- One resit available

Final Exam

Paper 1 (non-calc)	1 hr	(40 marks)
Paper 2 (calc)	1 hr 30 mins	(50 marks)

**Supported Study with Mrs Stoppard in H1
every Thursday from 3.30 - 4.30pm**



CfE Higher Mathematics 2016/17

5th May 2016

curriculum for excellence
building the curriculum 4

A Curriculum for Excellence sets
high expectations of rigour.

238 Days to go!

1. Expressions & Functions
 2. Relationships & Calculus
 3. Applications
- **2nd year of implementation****

Course Assessment Structure

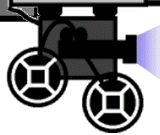
- Ongoing - using a portfolio approach
- New assessments are mostly "C standard"
- One resit available

Final Exam

Paper 1 (non-calc) 1 hr 10 mins (60 marks)

Paper 2 (calculator) 1 hr 10 mins (70 marks)

****75% = A, 62% = B, 51% = C, 45% = D****



Homework

...a mixture of
formal and
"finishing off"...

After School Club (for Higher)

Every Tuesday
3:30 - 4:30pm

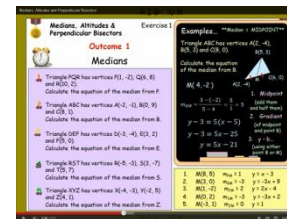
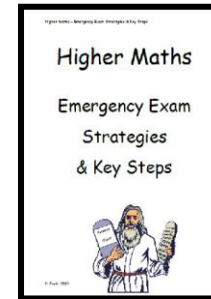
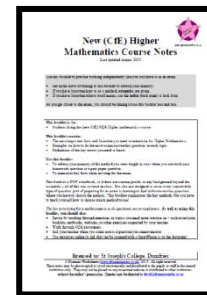
ESSENTIAL equipment...

Mathematics Department

St Joseph's College

Higher Timeline

Week Number	Week Commencing	Calendar Notes	Outcome	Content	Resources
Monday Period 1, Wednesday Periods 6&7, Friday Periods 4&5					
1	01.06.15		E&F 1.4	Vectors	
2	08.06.15				
3	15.06.15		App 1.1	Straight Line	
4	22.06.15				
5	29.06.15		App 1.3	Assessments/Recurrence relations	I, A
Summer Holiday					



Online
Tutorials!

(google rigour maths higher)

Casio FX-85GT

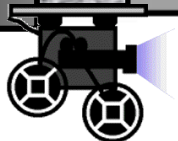


D. Ferla 2016



Taxi Driver

When are we going to use this in real life?



Hair Dresser



Sales person



Customer advisor



Joiner



Painter



Office worker



Mechanic



Distributor

Chef

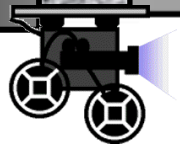


Soldier



Landscape Gardner





I don't need maths for my career choice!

Architect
Higher Maths



Data Analyst
Nat 5 Maths



Primary
Teacher
Nat 5 Maths



Surveyor
Higher Maths



Doctor
Higher Maths



Pharmacist
Higher Maths



Games designer
Higher Maths



Nurse
Nat 5 Maths



Engineer - Higher Maths - at least!



Physio - Nat 5 Maths



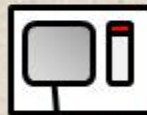
Dentist
Higher
Maths

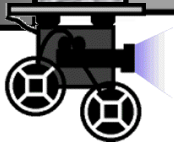


Pilot

Nat 5
Maths

Police
Nat 5
Maths





To Σ up...

- Challenging courses, high expectations, huge time commitment, big rewards.
- Use the support available
- P.T. will to keep parents informed
- Start NOW!!!

Thanks for listening

