

# **Numeracy Policy**

## **Coláiste Íde**

### **Preamble**

A numeracy policy was devised in 2016/2017, the numeracy committee consisted of the Maths Teachers, the Science teachers and the Geography teacher.

### **Scope**

This policy applies to all the students in Colaiste Íde.

### **Relationship to the school's mission and ethos**

This policy has been developed in line with the ethos of the Trustees of Coláiste Íde as stated in our mission statement.

The main aim of the school is the development of the “whole person”. This means the development of all aspects of life – social, spiritual, intellectual, aesthetic, physical, creative and moral. It is our aim to prepare our girls to take their place in society as responsible citizens by helping them to:

### **Rationale**

An effective and active policy will ensure a on organised and stimulating learning environment which ensure that all students receive a holistic education.

### **Definition of Numeracy**

Numeracy is the ability to communicate and think quantitatively, to make sense of details and facts, develop special awareness, understand pattern and sequence, to understand mathematical reasoning in solving problems

### **Aims**

- To improve students' confidence and attitude towards numeracy
- Outline the importance of numeracy in every aspect of life
- Provide students with the necessary and appropriate numeracy skills to assist them in solving problems in all subjects

### **Roles and Responsibilities**

#### **Role of Students**

Each student is fully responsible to implement the policy as instructed and follow guidelines

## Role of Subject Teachers

### *Cross-curricular links*

Irish	<ul style="list-style-type: none"> <li>• Sequence</li> <li>• Pattern</li> <li>• Organisations and order of essays</li> <li>• Logic</li> <li>• Numbers- Maths</li> </ul>
English	<ul style="list-style-type: none"> <li>• Statistics- essays</li> <li>• Dates- paper 1</li> <li>• Pattern-essays</li> <li>• Translations- essays</li> <li>• Critical thinking</li> <li>• Conversation</li> </ul>
Maths	<ul style="list-style-type: none"> <li>• All aspects of the curriculum</li> </ul>
French	<ul style="list-style-type: none"> <li>• Google maps – give directions from A to B</li> <li>• Simple Maths numbers</li> <li>• Verbs- –sequence</li> <li>• Reading the time</li> <li>• Group work</li> <li>• Role play / discussions</li> </ul>
History	<ul style="list-style-type: none"> <li>• Timelines</li> <li>• Essay structure</li> <li>• Dates / order of events</li> </ul>
Geography	<ul style="list-style-type: none"> <li>• Counting - population 7rl.</li> <li>• Measuring – distance on maps</li> <li>• Scale– map reading</li> <li>• Graphs – understanding and drawing them</li> <li>• Understanding Stats</li> </ul>
Science	<ul style="list-style-type: none"> <li>• Units, measurements,</li> <li>• Solving equations</li> <li>• Physics – using formulae’s and re writing terms</li> <li>• Large and small values</li> <li>• Science equilibrium</li> <li>• Displaying concepts through formulae</li> </ul>
Home Economics / SPHE	<ul style="list-style-type: none"> <li>• Measurements, angles</li> <li>• The Food Pyramid, Numeracy symbols</li> <li>• Budgeting and saving</li> <li>• Management, cost of food</li> </ul>
Art	<ul style="list-style-type: none"> <li>• Still life</li> <li>• Measurements– spaces between objects</li> <li>• Proportions of figure</li> <li>• Environmental perspective</li> <li>• Trip to Dublin- costing of trip</li> </ul>

Business	<ul style="list-style-type: none"> <li>• Sequence an order</li> <li>• Pattern</li> <li>• Graphs</li> <li>• Accounting</li> </ul>
Music	<ul style="list-style-type: none"> <li>• Rhythm, pattern agus sequence</li> <li>• Sound, rhyme and structure</li> </ul>
CSPE	<ul style="list-style-type: none"> <li>• Logic</li> <li>• Numbers</li> </ul>

### **Role of the Learning Support Teachers**

The school recognises the role of the learning support teaching, to provide extra support based on teachers guidelines and recommendations from assessments.

### **Role of Parents/|Guardians**

Parents/ guardians will be encouraged to support the policy through regular communication and the parents teacher meetings which take place annually for each year group.

### **Board of Management**

- The Board of Management is the decision - making body of the school. The school acknowledges the role of the Board of Management in the development and operation of the policy.
- All policies are developed with the authority of the Board of Management and must be approved by its members before becoming official school policy.

### **Board of Directors/Trustees**

- The Board of Directors is the decision making body of Cairde Coláiste Íde Teo. The college acknowledges the role of the Board of Directors in the development and operation of the policy.
- All policies are developed with the authority of the Board of Directors and must be approved by its members before becoming official college policy.

### **Resources**

- Shapes in the Science Room
- Kahn Academy
- Posters

## Action Plan

Action	Completion & Date:	To do and date:	Whom is responsible:
<ul style="list-style-type: none"> <li>• Organise two numeracy weeks in the academic year- one in October and one in February</li> <li>• Complete Kahn academy with 5<sup>th</sup> years once a week (OL)</li> <li>• Posters with regular mistakes to be visible in the school environment</li> <li>• Graphs tracking student progress in examinations to be kept up to date</li> <li>• Recommendation: 1<sup>st</sup> years would complete 30 minutes homework each evening, 2<sup>nd</sup> - 6<sup>th</sup> year- 45 minutes revision and homework each evening</li> </ul> <p><b>Record Keeping</b></p> <ul style="list-style-type: none"> <li>• Minutes of all committee minutes to be recorded – Teachers and numeracy committee</li> <li>• A record book is now being compiled for numeracy topics</li> </ul>			

## **Numeracy Checklist**

### **A numeracy rich environment in each classroom**

- Maths puzzles
- Word problems to be converted to Maths
- Numeracy Posters presented by the students

### **A numeracy rich whole school environment**

- Numeracy posters
- Projects regarding famous people in Maths, Women in Maths
- Numeracy corner, notice board

### **Teaching and Learning**

- Numeracy objectives to be shared at all staff meetings
- Whom is responsible for numeracy- cross curricular links
- Clarity around expected standards and grads and testing
- Understanding around numeracy level and ability

### **Numeracy Improvement Plan**

- Objectives to be set- subject plan and students diary
- Time frame for implementation- yearly
- Teachers responsibility for implementation
- Teaching recording all results in their teachers diary
- Providing feedback for students í
- Review regularly

### **Areas for improvement**

- Students with numeracy difficulties
- Maths outside the classroom
- Numeracy based school events
- Digital Numeracy Skills and information Kahn Academy

### **Continual Professional development**

School based

Strategies for each teacher

PDST/ Project Maths / Conamara Maths Academy

# Numeracy Week 1- 2017/2018

18<sup>th</sup> September 2017



Monday	Poster Competition Daily Puzzle Khan Academy
Tuesday	Maths workshop Registration with Quizlet Daily Puzzle
Wednesday	Junior table quiz Daily Puzzle
Thursday	Senior table quiz Daily Puzzle
Friday	Daily Puzzle Card Competition Prize giving event
<ul style="list-style-type: none"> <li>The numeracy committee will meet each Tuesday after a boarders weekend @1:30pm in the Science room</li> </ul>	<ul style="list-style-type: none"> <li>Students numeracy work will be displayed outside Halla Muire and in the co-operative learning room</li> </ul>

$$(x + a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k}$$

$$(1 + x)^n = 1 + \frac{nx}{1!} + \frac{n(n-1)x^2}{2!} + \dots$$

# Numeracy Week 2 -2017/2018

19<sup>th</sup> February 2018



Monday	Formulae's Maths project Daily puzzle
Tuesday	Guest speaker Khan academy Daily puzzle
Wednesday	Maths workshop Quizlet Daily puzzle
Thursday	Senior and junior table quiz Daily puzzle
Friday	Numeracy treasure hunt- juniors Daily puzzle Prize giving event
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