PROJECT MATHS

Information Evening 30th Sept 2013



Background to the introduction of Project Maths

"Just not good at maths"

- · Poor self esteem
- · No confidence
- This attitude results in students not even trying to understand certain topics



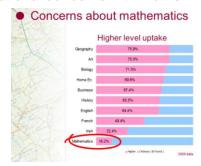
Background to the introduction of Project Maths

"Can't do maths – Won't do maths!"

- This impacts their motivation and retention.
- Hard for students to see the connection between their lives and maths



National concerns with Maths



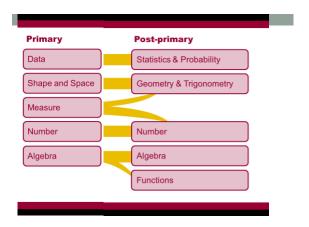
THE NEW SYLLABUS

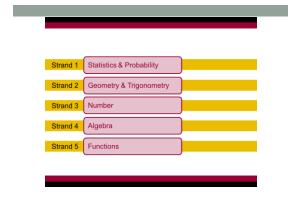
Project Maths

Continuity



Primary School Curriculum





WHAT DO WE WANT FOR **OUR** STUDENTS?







How does Project Maths differ from 'Maths'?

- 1. A change in teaching **methodologies**
- 2. The layout of the **exam** paper
- 3. A change in the type of **skills** required by the student

New teaching methodologies

- · Use of ICT in the classroom
- · Video clips
- Powerpoints
- Geogebra
- · "Hands-on" activities with concrete materials
 - · Student discovery through activities
 - · Pair work/ group work
- · Mathematical games/Quizzes
- · Using real data to understand statistics

PROBABILITY KIT JUMBO PLAYING CARDS GEO STRIPS GEOMETRIC CONSTRUCTION KIT STUDENT WHITE BOARDS CLINOMETER Angle Estimators Rainbow fraction tiles Unifix cubes Tape Measures Measuring Cylinders Getting Into Solids Kit Relational GeoStrips



Layout of exam paper

Number Lines

http://www.projectmaths.ie/videos/carlow.asp



- There is **no** choice on the paper
- The student writes answers on to the exam paper
- The no. of questions can vary
- · Requires students to 'think on their feet'

Sample Q

Number of Births, Marriages and Deaths in Ireland (per 10000 of the estimated population)			
Year	Births	Marriages	Death
1990	151	51	90
1991	150	49	\$9
1992	144	47	87
1993	138	47	90
1994	135	46	86
1995	135	43	90
1996	140	45	87
1997	144	43	86
1998	146	45	85
1999	144	50	87
2000	145	51	83
2001	150	50	79
2002	155	52	76
2003	155	51	73
2004	153	52	71
2005	148	52	68
2006	154	52	67
2007	163	52	64
2008	168	50	63
2009	167	48	63
2010	165	46	61

Your role...

- Relate maths problems (tasks) to real life situations where possible
- Encourage your child to try different strategies in order to solve the problem.

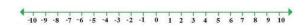


Problem Solving Strategies

- · How can you relate negative numbers to real life?
- Temperature!

Strategy: use a number line





Problem Solving Strategies

Saoirse thinks of a number and divides it by 2 and adds 5 to her answer. The result is 9.

$$\frac{x}{2} + 5 = 9$$





Problem Solving Strategies

· Find the surface area of a cube with side 3cm

- One square $3 \times 3 = 9$
- Six squares $9 \times 6 = 36$





Your role

- · Encourage your child
- · Instil confidence
- Relate maths problems (tasks) to real life situations
- Play games involving numbers e.g. playing cards
- · And most importantly encourage a positive approach to

