

Arles NS - School Improvement Plan-Numeracy

Summary of Main Strengths as identified in School Self Evaluation June 2014

- School Plan for Mathematics in place, formulated to inform teaching and learning. Teachers' planning is based on the Maths curriculum and the school Maths plan,
- Provision of wide range of appropriate materials and resources in classrooms
- Mental Maths is encouraged and constitutes an integral part of each lesson.
- Assessment: Variety of assessment tools utilised Standardised & Diagnostic Tests administered.
- Assessment results are used to inform teaching and learning.
- Talk & Discussion and opportunities for pupils to explain answers for part of Maths lessons.
- A high percentage of the sample study has a positive attitude towards numeracy
- There is an agreed whole school policy on Maths Language.
- ICT is used to support students in their learning and teachers in their delivery of differing teaching approaches.
- Web Links on school blog assist in accessing educational websites for strand units in school and at home
- A variety of teaching and learning approaches are used in numeracy lessons
- The School celebrates Maths Week each year.
- WSE Report stated "The quality of teaching and learning in Mathematics is commendable. A very good focus is placed on mental mathematics in all classrooms. Appropriate emphasis is placed on the introduction and use of correct mathematical language. Lessons observed were characterised by the successful use of manipulatives and ICT. Pupils were enabled to cooperate with one another in many settings to develop their understanding of mathematical concepts. An adequate range of problem-solving strategies was demonstrated by pupils during the course of the evaluation. Pupils display a positive attitude to Mathematics and learning outcomes are good".

Summary of Main areas requiring improvement with regard to Numeracy:

1. Providing tips for parents and short video clips on Parent Section the school website in how Maths is taught, what to expect at each class level and how they can support their child at home;
 2. Teachers to use concrete materials more during Maths lessons
 3. Problem solving; To develop a whole-school approach to the development of problem-solving skills.
 4. Shape and Space- to improve results in SIGMA-T tests.
 5. Maths Resources to be purchased to support the teaching and learning in the classroom
- Problem Solving was targeted as an area for priority

School Improvement Plan 2014-2017 - Numeracy

Priority	Improvement Target	Required Actions	Planning Activities	Timescale	Responsibility	Carried out by ...	Success Criteria
No.	<i>Related to pupils achievement</i>	<i>Teaching & Learning that will help achieve the Target</i>					
1	Increase the visibility of Maths Language/Symbols in the school environment	Have a Numeracy Board in the Main Corridor	Maths language to be displayed in all classrooms and on central Maths notice board.	2014/2015	All Teachers	All Teachers	Pupils have a better awareness of Maths symbols/language.
2	To increase the number of pupils with a positive attitude towards problem solving	Have Weekly Maths Problems at Assembly	Class Teacher creates and corrects Weekly Maths Problem	2014/2015	Class Teachers	Class Teachers	Pupils have a better attitude to problem solving.
3	To improve Mental and Oral Maths	To spend at least 10 mins each day on Mental and Oral Maths	Purchase "Work it Out" Workbooks for 1st-6th classes	2014/2015	Class Teachers	Class Teachers and pupils	Pupils mental and oral maths will improve

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4	To develop a whole-school approach to the development of problem-solving skills	Use of the RUCSAC strategy for problem-solving at whole school level	Have the RUCSAC strategy on Maths Boards and remind pupils to use it.	2015/2016	All Teachers	Teachers/Pupils	An increase in pupils ability to solve maths problems.
5	To encourage greater use of estimation as a strategy for problem solving.	Encourage pupils to estimate the answer before they solve the problem.	Remind pupils to estimate	2015/2016	All Teachers	Teachers/Pupils	Improved results in pupils Maths Tests
6	That problem solving will be an integral part of each mathematical lesson	Teachers will seek to extend the application of basic maths skills through high order questioning reasoning, inference.	Plan for this in Fortnightly notes	2015/2016	All Teachers	Teachers	Students will have demonstrated self-assessment skills recorded in copy
7	To introduce a "Problem Solving	Problem Solving Whole School Time	Facilitate this during	2016/2017	All Teachers	Teachers/Pupils	Pupils will be able to solve maths problems better.

	Time” 20 minutes weekly	20 mins to be introduced	Maths time on timetable				
8	Greater time devoted to the teaching of the Shape & Space in the Mathematics Curriculum.	Shape & Space to be covered at least twice a Term at each class level.	Plan for this in Classroom plans	2016/2017	All Teachers	Teachers	Increased level of understanding of Shape & Space and improved results in SIGMA-T.
9	Increasing opportunities for pupils to engage with Maths	Increase the use of Maths in the school environment. Creation of Maths trails within and outside the school building. Increased use of Maths games	Each teacher to create a Maths Trail for their class.	2014-2017 2015/2016 2014-2017	All Teachers	Teachers and Pupils	Increase in pupil’s attitude to Maths
10	Examine how we can support parents with regard to the content, methodologies and language of Maths – especially topics of subtraction, long division, fractions and Shape & Space.	Investigate Maths Workshops/online activities that would help parents.	Put resources/links on school website.	2016/2017	All Teachers Principal	Teachers	Parents will be asked to give feedback on these workshops/online links
11	Examine strategies to provide	Teachers will support more able	Review current	2016/2017	All Teachers	Teachers	Greater support available for more able students.

	challenge for more able students in Maths.	students through differentiation, ICT etc.	practice of differentiation.				
12	To purchase Maths Resources	To use more concrete materials in all Maths Lessons in all class groups	Investigate what resources are needed.	2014-2017	All Teachers	Teachers	Better understanding of mathematical concepts by pupils.

The following Legislative and regulatory requirements need to be reviewed:

1. Complaints Procedure
2. Review of Anti-Bullying Policy annually

The following Curriculum Plans and Policies need to be reviewed over the next 3 years:

- Gaelge
- Maths
- Data Protection Policy
- RSE Policy
- ICT Policy
- Swimming Policy
- Substance Use Policy

