Lisnagry National School Improvement Plan 2013-2016- Numeracy				
Baseline Data	<ul> <li>Attainment of Curriculum Objectives: Standardised Test Results analysis indicates that while pupils are performing above the national norm, pupils are performing least well in the area of problem solving – average score of 55%. Teacher observations and teacher designed tasks and tests highlighted mental maths and problem solving as areas needing attention.</li> <li>Teachers report that no school agreed problem solving strategy in place.</li> <li>Teaching Approaches: Teachers survey stated that more talk and discussion during maths lessons is needed and opportunities for pupils to explain answers as part of maths lessons is lacking. The environment also needs to be used more to relate maths to everyday life.</li> <li>Pupils Engagement in Learning: Parents Questionnaire stated clearly their desire to have more knowledge of the maths curriculum to help their children engage at home.</li> </ul>			
Summary of main strengths in S.S.E.	Teachers' planning is based on the Maths curriculum and the school Maths plan. There is an agreed whole school policy on Maths Language and agreed strategies for teaching most Maths topics. There is an agreed approach to numeral formation and presentation of written work. The school has a good supply of Maths resources centrally located. Results of assessments are used to inform teacher planning Attainment of curriculum areas-pupils performing above national norm.			
Summary of main areas requiring improvement	<ul> <li>Attainment of Curriculum Objective: Development of Problem Solving and Mental Maths to be encouraged and given a specific time slot. More time to be given to the strands of Shape and Space, Data and Measurement.</li> <li>Teaching Approaches: New Teaching Methodology allowing talk &amp; discussion about maths and opportunities for pupils to explain answers for part of Maths lessons. Strategies to support pupils problem solving need to be agreed at whole school level. Increase the use of Maths in the school environment. Creation of Maths trails within and outside the school building. Increased use of Maths games.</li> <li>Pupils Engagement in Learning: Supporting parents with regard to the content, methodologies and language of Maths – especially topics of subtraction, long division and fractions so pupils can engage better with maths work at home.</li> </ul>			

Improvement Targets	Required Actions	Success Criteria/	Persons Responsible	Timeframe for Actions
• To increase the average score of problem solving within the total school cohort as identified in the SIGMA T analysis by 5% to 60% over the next 3 years.	<ul> <li>Problem solving strategy RUDE to be implemented throughout the school and to be taught at each class level.</li> <li>Posters on mathematical language and problem solving strategies to be displayed in each classroom.</li> <li>Problem solving folder to be developed for each class level.</li> </ul>	<ul> <li>Measurable Outcomes</li> <li>Standardised testing at the end of each year- data will be analysed over three years to track performance of pupils problem solving.</li> <li>Review of children's work samples</li> <li>'Problem of the week' will be checked by Principal and modelled to children.</li> </ul>	<ul> <li>Principal to arrange all teachers to engage.</li> <li>Principal to conduct the 'Problem of the Week'</li> <li>Mrs. Kennedy (Maths Post Holder) will assist all teachers with P.S folders.</li> <li>All Class Teachers</li> </ul>	Year 1 -Term 1: Focus on mathematical language and problem solving strategy i.e. RUDE approach and posters to be displayed. Principal to begin the 'Problem of the Week ' Task Term 2: Problem solving folders to be compiled and used by all teachers. Term 3: Continue to develop the bank of problem solving resources. Set up focus group to discuss the year's
	<ul> <li>Word Problems and open ended tasks to be used in all classes as well as a 'Problem of the Week' task.</li> <li>Problem Solving Boxes 1-4 (Macmillan) to be introduced from 3<sup>rd</sup>-6<sup>th</sup> classes</li> </ul>	•Teacher Observation regarding the use of the Problem Solving Box to be noted and collated.	improvements. Focus Group: Ms. Kennedy, Mr. Feeney, Ms. Cahill, Ms. Barry, Ms. Delaney	improvements and plan for next year. Year 2: Evaluate the different types of word problems with each class level and monitor the progress of the Problem Solving Box. Year 3: Continuation of all strategies put in place.

• That 75% of each class	•Target boards and number	•Mental/ Oral Maths Tests:	•Mrs. Kennedy to administer	Year 1 -Term 1
would achieve or exceed the	fans to be introduced from	Data will be analysed over	mental maths tests.	Target boards and class
target norms as set out in	senior infants to sixth class.	three years.	•All class teachers to	suitable questions to be used
the Westwood and Ballard	Oral/Mental maths to be	•Weekly tables test from	monitor, correct and	in senior infants-6 <sup>th</sup> class.
timed computation test.	given a specific time slot	senior infants to sixth class.	encourage the use of	Oral/mental maths to begin
	every day: 5 mins at infant	<ul> <li>Teacher Observation</li> </ul>	oral/mental maths.	at all class level as outlined
	level and 10 mins at all other	regarding mental arithmetic		Westwood and Ballard test
	class levels.	focusing on speed and		to be administered and
	•Oral Computation/ tables	accuracy to be noted and		results to be collated by all
	to be practised both at	collated.		teachers.
	whole class level and			Term 2: Continue as above.
	through the use of ICT.			Greater focus this term on
				computation through the
				use of ICT.
				Term 3: Results from testing
				to be analysed for planning
				for next year.
				Year 2 and 3: Continue as
				above. Focus group will
				monitor yearly progress.
<ul> <li>To increase opportunities</li> </ul>	<ul> <li>To devise a maths trail for</li> </ul>	<ul> <li>Increased enthusiasm and</li> </ul>	<ul> <li>Each class teacher to</li> </ul>	Year2:
for pupils to engage with	each class level using the	enjoyment can be noted	devise their own class maths	Maths Games to be sourced
Maths in the school	school building and outside	through teacher	trail.	and catalogued for each
environment The Creation	environment.	observation.	<ul> <li>Maths game resources to</li> </ul>	class level to use.
of Mathe trails within and	<ul> <li>The creation of maths</li> </ul>	•Teacher can track children's	be sourced and filed. Mrs.	
or Maths trails within and	game resources for each	maths progress on the ICT	Kennedy to assist in selecting	Maths Trails to be compiled
outside the school building	class level both board games	games to ensure they are	appropriate material.	and used by each class at
so children will relate maths	and ICT games which can be	progressing to the next level.	<ul> <li>A list of maths websites to</li> </ul>	least twice a year.
to everyday life and	used at individual, small	These observations can be	be compiled and distributed	
increasing the use of Maths	group or whole class level	noted and collated. Games	to each teacher –Mrs.	Year 3: Greater focus this
games in all classes	using the interactive	can be selected to focus on	Kennedy responsible for this.	year on the use of ICT
	whiteboard.	the particular strands being		software and websites with
		taught at that time.		interactive online games.

•To increase the amount of time dedicated to the strands of Shape and Space. Data and Measurement.	•Each class teacher to dedicate more teaching time to the strands of shape and space, data and measurement – one to be taught each term rather than left to the final term.	•Standardised testing at the end of each year- data will be analysed over three years to track performance of pupils in these three areas with the hope of seeing an increase in test scores.	•Class Teacher.	Year 1: Greater focus on Shape and Space with more time spent on it and resources to be used more frequently. Year 2 : Same as above but with focus on Data Year 3: Concentration this year will be on Measures.
• To support parents with regard to the content, methodologies and language of Maths, therefore helping their children to engage with classroom learning at home.	•To compile a booklet for parents with ways in which they can help their children with maths at home. This booklet will also help parents understand the teaching methodologies and language used at school so as to ensure uniformity for the child both at school and at home.	<ul> <li>Parent feedback to be encouraged at PTMs which are held yearly.</li> <li>Booklet to be published on school website and all parents to be notified of it.</li> </ul>	<ul> <li>Principal and Mrs. Kennedy to compile booklet</li> <li>Principal to publish it on school website.</li> </ul>	Year1 : Devise booklet and publish on website Year 2 and 3: Update material in booklet –keep parents informed of any changes.
Monitor and Review	Review Year 1 : May 2014 Review Year 2: May 2015 Review Year 3: May 2016			
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