

SHIRLEY HIGH SCHOOL PERFORMING ARTS COLLEGE

NUMERACY (REAL) POLICY

Mission Statement: We deliver high quality teaching and learning in an environment that meets the needs of our students so that all achieve and enjoy.

A definition of numeracy:

Numeracy (REAL) is confidence and competence with numbers and measures.

Philosophy:

Shirley High School is committed to the promotion and delivery of numeracy across the whole curriculum (REAL: Reasoning, Economics, Application, Logic / life skills). We recognise that students should be able to use correct and consistent methods to solve problems involving maths across the curriculum; also they should be able to use their mathematical knowledge to identify any aspects of REAL. Therefore it is essential for students to know how to reason with a problem, solve problems involving finance and economics, know the application of maths needed to solve the simplest of problems and be able to use their logic / life skills to assess and solve not only mathematical problems but problems across curriculum.

Transferring skills learnt in one curriculum area to another plays an important part in preparing students for adult life. We aim to have an approach to ensure this consistency and as such there are suggested approaches on the use of units, notation, standard mathematical techniques, terminology, presentation and interpretation of results to support all parties.

Principles:

- REAL must be embraced by the whole school, with students and teachers knowing what each letter stands for, and are able to relate and link problems to REAL.
- REAL is a key basic skill and is necessary for providing students with the tools required for independent learning and future opportunities.
- REAL is the responsibility of all staff and subject areas across the curriculum to provide important contexts for developing REAL and using correct and consistent mathematical approach when teaching any mathematical aspect in their subject areas.
- All students should be familiar with correct mathematical language, notation, conventions and techniques, within all subject areas and encouraged to use them correctly.

Purpose:

The purpose of the numeracy policy (REAL) is to ensure that students:

- Are confident with what REAL stands for and know how to identify aspects of REAL
- Have an understanding of solving problems mathematically, involving real life situations and finance.
- Are able to solve mathematical problems using correct and consistent methods and explain these to their peers

- Can solve problems logically
- Have a repertoire of computational skills
- Are able to communicate with their peers

Outcomes:

All departments will use consistent methods to solve problems

- Students can identify REAL situations
- Students can apply their mathematical skills and solve problems involving REAL across the curriculum.

Responsibilities:

All teachers should ensure that:

- they are familiar with correct mathematical language, notation, conventions and techniques, relating to their own subject.
- students are encouraged to use correct and relevant mathematics where appropriate.
- they regularly promote REAL during lessons and tutor time, and highlight any aspects of REAL across their subjects using the purple stamp.
- students are aware of REAL and its application.
- they are fully aware of students' inclusion on the SEND register, the appropriate expectations of students and difficulties that might be experienced with REAL.

The numeracy coordinator should ensure that they:

- monitor the implementation of REAL and make modifications where necessary.
- keep up to date with and implement changes in the pedagogy of mathematics.
- establish lines of communication and provide assistance and advice where necessary to other departments.
- know the expectations of mathematical skills required by students in other subjects
- are aware of the difficulties students find in applying their mathematics in context and should provide opportunities for this in mathematics lessons and support options through liaising with the relevant staff.

The parent / carer should ensure that they:

- are aware of and understand REAL
- support the philosophy, principles, purpose and outcomes expected.