

# Mathematics

The Mathematics curriculum is in line with the Australian Curriculum, the International Baccalaureate Middle Years Programme curriculum framework and the French National Curriculum.

The courses available to incoming Year 7 students are:

Students in the English Stream (ES) Advanced Mathematics Extended (for high performing students)

Students in the English Stream (ES) Mainstream Mathematics

Students in the English French Stream (EFS) study the French National Curriculum

English Stream students in Year 7 are placed into differentiated classes after Semester 1. In Term 2 all students will undertake a school ability test. English Stream student results from this test, their Semester 1 grades and teacher recommendation are used to determine student placements in Year 7 classes of either Advanced Mathematics Extended or Mainstream Mathematics. All students in Mathematics in English Stream classes will constantly be given the opportunity to develop competencies in several areas, enabling their placement in classes to be reviewed. All students in the Advanced Mathematics Extended class need to continue to demonstrate their interest in and commitment to Mathematics, to remain in this class.

**Advanced Mathematics Extended (AME)** is offered to outstanding students who are interested in undertaking lateral extension while following the Advanced Extended Course. Students in this course are strongly encouraged to participate in the Enrichment and Challenge programs organised by the Australian Mathematics Trust, as well as the various competitions offered throughout the year (eg. Australian Mathematics Competition and ICAS: Mathematics). All students in the AME class need to continue to demonstrate their interest in and commitment to Mathematics, to remain in this class.

**Differentiated course work** is undertaken in Mainstream Mathematics classes.

## RESOURCES

The school is currently under going a review of the Mathematics resources for 2017.

Students will need to provide their own exercise book, geometrical instruments and scientific calculator.

Information regarding suitable models will be sent with the communications sent out prior to the start of the new school year. Please note under our *Electronic Device Protocol*, mobile telephones and portable music devices may not be used as calculators.

Students will be expected to purchase a "Mathletics" licence from the school (\$25 per student per year).

"Mathletics" is an internet based Mathematics tutorial and interactive Mathematics site which assists with numeracy drill and general skill building. Teachers devote some class time to using this site and may set homework through this site from time to time. (<http://mathletics.com.au>)

## ASSESSMENT

Students are assessed using the Middle Years Programme (MYP) Mathematics Assessment Criteria.

Tests, assignments and in-class investigations are marked against specific MYP criteria. Students receive a level of achievement against these criteria. At the end of the semester students receive an MYP Grade (1-7) based on totals of achievement against all criteria. A standard grade of E-A is also allotted based on their MYP grade.

Inclass tests occur at the end of each term. Tests must be sat at the appointed time. Each semester there are two assignments, one requires an extended effort (the student has 2- weeks to complete), the other is an in-class investigation (taking one or more lessons). Students may also have set homework or be expected to complete class exercises for homework throughout the semester.

## COMPETITIONS

All students are invited to participate in the Australian Mathematics Competition and ICAS Mathematics Competition. Other competitions and challenges may be offered.

**Telopea Park School**

**Lycée franco-australien de Canberra**

**Cooperation ▪ Fairness ▪ Honesty ▪ Respect**