

***How do the Paul Kane High School Mathematics Teachers help students to be successful in their Mathematics courses?***

- 🍏 We offer a Pure Math/Prep 10, 20, 30 courses with 9 class periods a week which provides students with three additional classes for doing homework and reviewing material (minimum of 60% in Grade 9 mathematics)
- 🍏 We include an in-class unit open-book practice exam, before writing a unit test for most courses
- 🍏 We offer extra help out of class time, as needed or requested
- 🍏 Our library has study guides and alternative resources to supplement most math courses as well as 40 videotapes for Pure Math 30 that students can sign out for review purposes
- 🍏 Students have access to Computer PowerPoint presentations in the library for learning/reviewing the Pure Mathematics program
- 🍏 The Pure Math 10, 20, and 30 "The Learning Equation" is available on the school computer system
- 🍏 The Pure Math 10, 20, 30 "The Learning Equation" can be purchased as a computer Home Edition
- 🍏 The Key (a study guide) for Pure Math 10, 20, 30, Applied 30 is sold at the ONSIDE Store in Paul Kane for less than retail price
- 🍏 The Math Workbooks for Pure 10, 20, and 30 and Applied 10, 20, and 30 are sold at the ONSIDE Store in Paul Kane; Pure Math 30 is available in English and French
- 🍏 Practice Unit Tests for Pure Math 30 are sold at the ONSIDE Store
- 🍏 We use the TI graphing calculator in lesson presentations, using the ceiling-mounted televisions or overhead projectors in every Mathematics classroom. This gives a visual display of concepts being taught on the graphing calculator. (Note: Grade 12 diploma examinations which are worth 50% of the final mark require the use of a graphing calculator.)
- 🍏 We offer all mathematics courses in our ONSIDE Independent Study Program for students who need an alternative to a traditional classroom setting for learning or for students who are unable to schedule a mathematics course into their regular timetable
- 🍏 We encourage students to assist each other and to seek help from fellow students

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*The purpose of education...is to create in a person the ability to look at the world for himself, to make his own decisions.      -James Baldwin*

# Alberta Learning Diploma Examinations Program

## Calculator Policy for Examinations Written

### Policy

Pure Mathematics 30 and Applied Mathematics 30 require the use of an **approved graphing calculator** for diploma examinations.

To ensure compatibility with the provincial *Programs of Study* and equity and fairness to all students, Alberta Learning expects students to use calculators, as defined, when writing diploma examinations in mathematics and the sciences. Students must not use unapproved graphing calculators for diploma examinations because to do so may confer an undue advantage or undue disadvantage on the students. For example, the use of an older, previously but not currently approved graphing calculator for a mathematics diploma examination will disadvantage the student through the calculator's inability to perform functions required by the *Mathematics Applied and Pure Programs of Study*.

**The *Programs of Study* for the Pure Mathematics 30 and Applied Mathematics 30 mandate the use of graphing calculators. Although many questions on the mathematics diploma examinations will not require the use of a graphing calculator, there will be some questions for which the use of an approved graphing calculator will be required.**

### Expectations

1. At the beginning of any mathematics or science diploma examination course, teachers must advise students of the types of calculators approved by Alberta Learning for use when writing diploma examinations in these courses.
2. Students must clear **all** programmable calculators, both graphing and scientific, that are brought into diploma examinations of all information that is stored in the programmable or parametric memory.
3. Students must not bring external devices (peripherals) to support calculators into any examination. Such devices include manuals, printed or electronic cards, printers, memory expansion chips or cards, external keyboards, CD-ROMs, libraries, or any annotations that outline operational procedures.
4. In preparation for calculator failure, students may bring extra batteries and/or approved calculators into the examination room.
5. During examinations, supervising teachers must ensure that
  - calculators operate in silent mode
  - students do not share calculators or information contained within them
  - calculator cases are not available to students
  - programmable calculator memories, including parametric memories, have been cleared
  - only graphing calculators on the current list approved by Alberta Learning are used

The use of calculators for all mathematics courses has been approved by Alberta Learning. In keeping with this policy, the Paul Kane High School Mathematics Department would recommend:

- a. Math 14, 24 - a scientific calculator
- b. Pure Math 10, 20, 30; Math 31; Applied 10, 20, 30 – **TI-83Plus or TI-83Plus Silver Edition, TI-84Plus, or TI-84Plus Silver Edition Graphing Calculators**

In accordance with the Alberta Learning Calculator Policy for Diploma Examinations, the staff at Paul Kane High School will adhere to the policy for all course-related activities, e.g. tests, quizzes, and assignments. Students will be required to sign a form at the beginning of the course indicating that they have read and understood the policy.

If purchasing a new calculator, please save the UPC Code and give it to your math teacher or Mathematics Department Head. When purchasing a new one, you may be encouraged to purchase study cards. Please be aware that all calculators need to be cleared prior to writing quizzes/tests. When calculators are cleared all programs and study cards are deleted. If you purchase the study cards, you will need to arrange a means of retrieving them from another source without paying additional monies.