WOBURNCOLLEGIATEGRADE9 MATHEMATICSCOURSESFOR2014-2015

Course DescriptionGrade9Academic :

This course enables students to develop generalizations of mathematical ideas and methods through the exploration of applications, the effective use of technology, and abstract reasoning. Students will investigate relationships to develop equations of straight lines in analytic geometry, explore relationships between volume and surface area of objects in measurement, and apply extended algebraic skills in problem solving. Students will engage in abstract extensions of core learning that will deepen their mathematical knowledge and enrich their understanding.

Course DescriptionGrade9Applied :

This course enables students to develop mathematical ideas through the exploration of applications, the effective use of technology, and extended experiences with hands-on activities. Students will investigate relationships of straight lines in analytical geometry, solve problems involving the measurement of 3-dimensional objects and 2-dimensional figures, and apply key numeric skills in problem solving. Students will also have opportunities to consolidate core skills and deepen their understanding of key mathematical concepts.

Course DescriptionGrade9Locally Developed:

This course enables students to develop their mathematical knowledge and skills. The course is organized by three strands related to money sense, measurement and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems.

FORACADEMIC,APPLIEDandLOCALLYDEVELOPEDCOURSES

Categories:
Knowledge/Understanding:	30%
Application:	30%
Communication:	20%
Thinking/Inquiry/problem solving:	20%

FinalMark:
70% term 1 and 2 work, term 1 exam, 30% summative tests and assignments.

Assessment, both formative and summative, will be done through quizzes, tests, projects, assignments, independent study sheets, observation and interaction with the teacher and other students.

Textbook:	Academic:	Principles of Mathematics 9 Nelson
	Applied:	Applied Mathematics Pearson
	Locally Developed:	Math Essentials 9 McGraw-Hill Ryerson

AdditionalResources: Our School Computer Lab and our graphing calculators are an integral part of the math curriculum. Extra help is available before/after school and during the lunch period.