Calculus is the mathematics of change and motion. There are two types, differential calculus, finding the rate of change of a function and, integral calculus, finding the function when its rate of change is given. Science, engineering, and business use these branches for expressing physical laws in exact mathematical terms and as a tool for studying ramifications of those laws. The Advanced Placement Calculus (AP Calculus) course is intended for those students who have successfully completed precalculus and desire to further their studies in mathematics. It includes such topics as limits, derivatives, applications of derivatives, integrals, applications of integrals, and slope fields. Students will use technology regularly to assist in solving calculus problems. Graphing calculators* will be utilized to represent functions, check written work, execute experimentation, and interpret results. Students will recognize and appreciate how technological tools can be used to solve real world mathematical problems.