I. Describe your project.

My project is to create an opportunity for computer programming students to create iPod/iPad/iPhone applications. This would be tied into the currently offered Programming I, Programming II, and Advanced Programming classes. Adding this project to our current Programming curriculum would allow students to stay with, or ahead of, the technology curve.

The computers purchased for this project could also be used for the Business Professionals of America student organization. During regional, state, and national competitions students competing in computer based events are required to bring their own computers for competition. Having these computers in the department would allow us to have computers that can access the internet outside of the school.

II. Why do you think there is a special need for your project

I feel there is a special need for this project because of the amount of opportunities that this would provide. Allowing students to learn and experience a new computer programming language (objective c) provides a broader range of opportunities for them when they go on to the next level, whether it is college or career. Not only would this broaden the student's knowledge of programming, but it may also provide fund raising opportunities for the department, student organizations, and school. Being able to create, market, and sell applications is defiantly something that could come from this project.

III. State your project objectives and how they meet your objectives

The objective of the project will be to allow all Programming students an opportunity to create programs/applications for Mac products using the Mac computers, development software, and the Objective C programming language. The ultimate goal of the project would be for students to be able to create applications that they can use and/or distribute to other users.

By accomplishing the project objective, students would meet and exceed the current essential outcomes outlined in the Waterford Schools Programming curriculum.

IV. Describe the methods you will use to meet your objectives.

Once the necessary computers and software is purchased I would allow Programming I students to begin familiarizing themselves with the new hardware and software during the semester. Students will be expected to meet the same benchmarks as they do currently, but while learning a new programming language.

Students that take Programming II and Advanced Programming would also be held to the same standards as they are currently, but will be allowed a greater opportunity to work with the Mac computers and the Objective C language.

Classes will go on as normal except small groups of students will take turns using the Macs, while the rest of the class will use the PCs as they currently do.

V.   How will you determine whether your objectives have been achieved and whether your project is successful?

I will determine if objectives have been achieved based on current benchmarks and essential outcomes out lined in our current curriculum, which is aligned to state standards. I will also set new standards and benchmarks to be met that will be specific to the Mac software and Objective C language. I will consider the project a success if students are able to create applications that are useful to them or other users. I will also consider this project a success if it opens more doors to the student's future in their further education and career.

VI.   Give a time schedule of events.

Spring 2010
1) Purchase Mac Laptops Computers
2) Set up computers and familiarize myself with the programs
3) Allow Advanced Programming students an opportunity to use the new equipment and work out potential issues that may arise
4) Evaluate and begin preparing for next school year

Summer 2010
5) Develop lessons and projects for next school year
6) Test lessons and projects to avoid future problems

Fall 2010
7) Begin implementing the project in Programming I, Programming II, and Advanced Programming classes for the 2010-2011 school year
8) Reevaluate as needed, and modify for second semester

VII.   Approximately how many pupils will be involved in this project?

Based on current and past enrollment numbers, approximately 90 students per year will be able to take part in this project. Popularity of this project could increase this number in future years.

Business Professionals of America students could also benefit from these computers. The amount of students will vary year to year. This year five BPA students could have benefited from these computers.

Describe your population, i.e., grade level, school, I.D., gifted/talented, etc.

Currently Programming I is available to all 9th – 12th graders here at Kettering. Programming II can be taken by any student that passes Programming I. Advanced Programming is Available to 9th – 12th graders that have passed Programming II, this class may be taken multiple times for credit. Typically Programming classes are made up of around 80% male students. Other than the lopsided male to female ration, Programming classes are a good general sample of the high school population.

IX. **DETAIL your Budget Request.**

I am requesting three Apple MacBooks as described in the table below. These are the most affordable MacBooks available that have respectable specs and will not be outdated in the near future. I am also requesting the two year protection plan to insure that Best Buy will service them for two years.

I am aware that these computers cannot access the school network and will not have access to the internet in school. Beyond downloading the Developer Program, internet access will not be necessary.
I am also aware that I will be responsible for servicing these computers if any problems do occur.
My supervisors are aware that I am making the request for this project.

ITEM	QNTY.	SOURCE	COST
Apple - MacBook Pro with 13.3" Display Aluminum Model: MB990LL/A	3	Best Buy	$1199.99 per **$3599.97 Total**
2 – Year Standard Protection Plan	3	Best Buy	$199.99 per **$599.97 Total**
Iphone Developer Program	1	Apple.com	**$99.00 Total**

Total Budget Amount   **$4298.94**