## Lesson Plan/Facilitator Guide

Lesson Plan: Finding position of particles
Program Title: AP Calculus AB
Objective Time: 59 minutes

| Time | Media/Activities | Content |
| :---: | :---: | :---: |
|  |  | Prior to the lesson: <br> - Post Handouts and video links to class website as resources for students to access at a later. |
| 5 min . | Learning <br> Objective; LCD <br> Projector; <br> Documentary camera | Introduction: <br> 1. Gain student attention by talking about the AP Exam. <br> - Exam date and time <br> - Number of questions (multiple choice \& free response) and time. <br> - Goal \& purpose of earning a score of 3 or higher <br> - Purpose of the lesson: Review \& prep for the exam <br> 2. State the learning objective for the lesson. <br> - Given the velocity (in a table, graph, or equation) of a particle in rectilinear motion over an interval of time, students will be able to write and evaluate an expression involving definite integral to calculator the position of a particle at a given time, with $75 \%$ accuracy on the end of the lesson's assessment. |
|  |  | Body/Content: |
| 4 min. <br> 8 min . | Video; Laptop; LCD Projector, <br> Handout/practice problems; LCD projector, Documentary | 3. Stimulate recall of prior knowledge by having students watch the video: Position of a Particle. <br> - Project video for all students to watch. <br> 4. Present the packet/handout of past review free response questions. <br> 5. Provide learning guidance by modeling how to apply the concept to free response questions. <br> - Question 1a and 2. |



