Unit 5 Applications of Integration

Content Area: **21st Century Life & Careers**
Course(s): **Generic Course**
Time Period: **Generic Time Period**
Length: **Weeks**
Status: **Published**

Unit Introduction

Standards

4.1.12A	4.2.12A	4.2.12D	4.3.12B	4.4.12A
4.1.12B	4.2.12B	4.2.12E	4.3.12C	4.4.12C
4.1.12C	4.2.12C	4.3.12A	4.3.12D	

Essential Questions

- How can integrals be used to find the area between two curves?
- How can integrals be used to find the volume of a solid of revolution?

Content / Skills

CONTENT

- Relevant vocabulary, notation and symbols.
- Area of a region between two curves.
- Volume of a region rotated around an axis.

SKILLS

- Use relevant vocabulary, notation and symbols.
- Use the graphing calculator where appropriate.
- Use integration to determine the area between two curves.
- Use the washer, disc, and shell methods to find volumes.