Unit 1 Limits and Their Properties

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 do limits demonstrate the dynamic nature of Calculus?
- How will the three processes confirm the uniqueness of a limit?

Content / Skills

CONTENT

- Relevant vocabulary, notation and symbols.
- Finding limits graphically, numerically and analytically.
- Continuity of a function and one sided limits
- Infinite limits and their properties.

SKILLS

- Use relevant vocabulary, notation and symbols.
- Evaluate limits graphically, numerically and analytically, including one-sided limits.
- Use the definition of continuity.
- Identify removable and non-removable types of discontinuities
- Determine infinite limits
- Use the properties of infinite limits to find vertical asymptotes.
- Apply the Intermediate Value Theorem.
- Use the graphing calculator where appropriate.