Unit Plan – Math Strategies

**Grade:** High School

**Unit/Lesson:** Reading and Interpret Graphs

**Content Area:** *CTE/Employability Frameworks*

*1.1 Applied Academic Skills*

*Applied academic skills are evident daily in homework assignments, classwork, and Q&A exchanges during lessons.*

**Benchmark:**

**1.1.3 Math strategies/procedures**

Students use computational skills appropriately and make logical choices when analyzing and differentiating among available procedures. Outside of math class, this includes creating/interpreting tables and graphs and organizing/displaying data.

**Description of Unit:**

This tutorial is less about statistics and more about interpreting data—whether it is presented as a table, pictograph, bar graph or line graph. Good for someone new to these ideas. For a student in high school or college looking to learn

**Learning Intentions**

* Recognize the meaning in charts and graphs
* Create basic charts and graphs Supplemental:Understand representing data; stem and leaf plots; picture graphs, bar graphs, and histograms; frequency tables and dot plots; and number patterns.

# Lesson

## Assessment and open resources

I can find resources to assess and improve my math skills

[Getting Started with Math Assessment and Resources](https://drive.google.com/open?id=1Yv_jF45tj-PiC5ejG-Yrw5XgWk7tfArpYU1Vy8spXyY)

## Representing Data

I can recognize the meaning in charts and graphs

[Charts & Graphs: What’s the Point?](https://docs.google.com/presentation/d/e/2PACX-1vTEAeyxGXQxpx_Etk5mHB_Zhv-pZRkTaJ9t6j-roTEnJ4Pq-4DKbHx6hx4GE4OjwgC8qD2LMf4ztovu/pub?start=false&loop=false&delayms=3000)

## Stem & Leaf Plots

I can create basic charts and graphs

[Chart & Graph Creation](https://docs.google.com/document/d/1cQ431EhF6yTSuf8zCy8dVbw1OhQURucMUp0KOKsYrDQ/edit?usp=sharing)

# Additional resources

## Representing Data

I can... interpret representing data.

[Representing data](https://www.khanacademy.org/math/pre-algebra/pre-algebra-math-reasoning/pre-algebra-representing-data/v/ways-to-represent-data)

## Stem & Leaf Plots

I can… interpret stem and leaf plots.

[Stem and leaf plots](https://www.khanacademy.org/math/pre-algebra/pre-algebra-math-reasoning/pre-algebra-stem-leaf/v/u08-l1-t2-we3-stem-and-leaf-plots)

## Quiz 1

I can demonstrate that I understand representing data and stem and leaf plots.

[Quiz 1](https://www.khanacademy.org/math/pre-algebra/pre-algebra-math-reasoning/modal/quiz/pre-algebra-stem-leaf-quiz)

## Picture graphs, bar graphs, and histograms

I can interpret picture graphs, bar graphs, and histograms.

[Picture graphs, bar graphs, and histograms](https://www.khanacademy.org/math/pre-algebra/pre-algebra-math-reasoning/pre-algebra-picture-bar-graphs/v/reading-pictographs)

## Frequency tables and Dot Plots

I can interpret frequency tables and dot plots

[Frequency tables and dot plots](https://www.khanacademy.org/math/pre-algebra/pre-algebra-math-reasoning/pre-algebra-frequency-dot-plot/v/frequency-tables-and-dot-plots)

## Quiz 2

I can assess my progress

[Quiz 2](https://www.khanacademy.org/math/pre-algebra/pre-algebra-math-reasoning/modal/quiz/pre-algebra-frequency-dot-plot-quiz)

## Number Patterns

I can interpret number patterns.

[Number patterns](https://www.khanacademy.org/math/pre-algebra/pre-algebra-math-reasoning/pre-algebra-number-patterns/v/figuring-out-days-of-the-week)

## Test

Assess progress

[Unit test](https://www.khanacademy.org/math/pre-algebra/pre-algebra-math-reasoning/modal/test/pre-algebra-math-reasoning-unit-test)

<https://www.cteonline.org/resources/view/47310>