

# Unit 6: Arrays

Content Area: **Business**  
Course(s): **Generic Course**  
Time Period: **Semester 1 & 2**  
Length: **1 weeks**  
Status: **Published**

## Standards

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|-------------------|---|
| TECH.8.2.12.A.CS2 | The core concepts of technology.  |
| TECH.8.2.12.D.6   | Synthesize data, analyze trends and draw conclusions regarding the effect of a technology on the individual, society, or the environment and publish conclusions. |
| TECH.8.2.12.E.2   | Analyze the relationships between internal and external computer components.  |
| TECH.8.2.12.E.3   | Use a programming language to solve problems or accomplish a task (e.g., robotic functions, website designs, applications, and games).                            |
| TECH.8.2.12.E.CS1 | Computational thinking and computer programming as tools used in design and engineering.  |

## Enduring Understanding

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An array is an object that stores a collection of data of one type.

In computer science, arrays commonly store thousands of records and programmers must understand how to create arrays and work with their stored data.

## Essential Questions

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How can large collections of data be organized so they are easy to access or modify?

What is the difference between position and value?

Why are arrays categorized as Objects?

## Knowledge and Skills

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- Define and Use Arrays
- Describe how arrays and array elements are passed as parameters
- Explore how arrays and other objects can be combined to manage complex information

## **Transfer Goals**

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Grouping data makes it easier to share and analyze.

Deconstructing a problem into components allows you to tackle complicated tasks.

## **Resources**

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CS Awesome curriculum and online textbook with interactive activities

Repl.it Teams for Education for writing programs

Teacher created Computer Science Google site