

# JavaScript WDD 320 - SAE Zürich

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! Make sure you link the JS files to an HTML file to view in browser !

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## Table of contents

Week	Topics
1	Day 1 & 2 <a href="#">Syntax, variables, data types...</a>
2	Day 1 & 2 <a href="#">Alert, confirm, prompt arrays and strings...</a>
3	Day 1 & 2 <a href="#">Functions, Objects, Console Methods, let &amp; const, Template Strings/Literals...</a>


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### Week 1

#### Day 1

-  Lesson
  1. Introduction: syntax, variables & data types
    - [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Data\\_structures](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Data_structures)
  2. Operators: assignment, comparison and more
    - <https://www.tutorialsteacher.com/javascript/javascript-operators#:~:text=JavaScript%20includes%20operators%20as%20in,and%202%20is%20right%20operand.&text=JavaScript%20includes%20following%20categories%20of%20operators.>
  3. Conditionals: if, if else, else if
    - [https://www.w3schools.com/js/js\\_if\\_else.asp](https://www.w3schools.com/js/js_if_else.asp)
  4. Loops: for loops
    - [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Loops\\_and\\_iteration](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Loops_and_iteration)
    - <https://www.freecodecamp.org/news/javascript-loops-explained-for-loop-for/>

#### Day 2

-  Lesson
    1. Strings: Iterating through strings
      - [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)
    2. Arrays: Iterating and accessing arrays
      - [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Array](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array)
  - :hammer\_and\_wrench: Exercises
    1. Repetition questions
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## Week 2

## Day 1

-  Lesson
  1. Inputs and outputs : `alert()`, `confirm()` & `prompt()`
    - [https://www.w3schools.com/js/js\\_popup.asp](https://www.w3schools.com/js/js_popup.asp)
  2. Using `push()` & `unshift()` to handle arrays
    - <https://alligator.io/js/push-pop-shift-unshift-array-methods/>
  3. Using `pop()` & `shift()` to handle arrays
    - <https://alligator.io/js/push-pop-shift-unshift-array-methods/>
  4. Using `splice()` to handle arrays
    - [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Array/splice](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/splice)
- :hammer\_and\_wrench: Exercises
  1. Exercise 1: Reviewing string & array index
  2. Exercise 2: Calculator with `prompt()` & `alert()`
  3. Exercise 3: Rearranging arrays with `push()`, `pop()`, `shift()` & `unshift()`


## Day 2

-  Lesson
  1. String methods: Reviewed `indexOf()`, `slice()`, `toUpperCase()`, `toLowerCase()` and `replace()`,
    - [https://www.w3schools.com/js/js\\_string\\_methods.asp](https://www.w3schools.com/js/js_string_methods.asp)
- :hammer\_and\_wrench: Exercises
  1. Repetition exercise ( using `splice()` to manipulate items in arrays )
  2. Going through 2 arrays simultaneously ( a loop in a loop)
  3. Using the string methods we learned in Lesson 1
  4. Homework assignment




## Week 3

## Day 1

-  Lesson
  1. Functions - Function declarations, expressions and more: `function example(){}` 
    - <https://codeburst.io/javascript-functions-understanding-the-basics-207dbf42ed99>
    - <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Functions>
  2. Objects - Object structure, methods and object literals: `let myObj = { }`
    - [https://www.w3schools.com/js/js\\_objects.asp](https://www.w3schools.com/js/js_objects.asp)

## Day 1

-  Lesson
  1. Different things we can do with `console`

## 2. `let` and `const`

- <https://ui.dev/var-let-const/>

## 3. Template Strings

- [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Template\\_literals](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Template_literals)
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## Week 4

## Coming Soon