

Prompts

1. What are the different loops JavaScript provides us with?

- For – this loop is used to process a block of code for a set number of times.
- For/ in – this loop is used to evaluate the properties for a specified object.
- For / of – this loop is used to evaluate the values of a specified object.
- While – this loop processes a block of code when criteria for a condition is true.
- Do/while – this loop is used to process a block of code when criteria for a condition is true. This loop is unique in that it will always run at least once, unlike the while loop that may not ever run if the condition is true at the beginning.

https://www.w3schools.com/js/js_loop_for.asp

2. What is the syntax of one of the loops in your above answer? How and when should you use this loop? Give an example.

- The for loop is defined by a set of three different expressions. These are written in this way:

```
for (expression 1; expression 2; expression 3)
```

OR

```
for (let index = start_value; index boolean end_value; index + or – increment_value)
```
- The expressions are written in a specific order such that the first expression is the primary or first order and should be run at least once. The second expression is the condition under which the action of the code would be executed and the third expression is action to be repeated after each execution until all conditions have been met.
- An example of this would be if you were to need to count by odd or even numbers only in a list of numbers. In this way, for loops can put out a list of just odd or just even numbers within a number set.

```
for (var i = 1; i < 1000; i += 2);
```

https://www.cs.utah.edu/~germain/PPS/Topics/for_loops.html#:~:text=A%20%22For%22%20Loop%20is%20used,use%20a%20%22While%22%20loop.

3. What is the syntax of another one of the loops in your above answer? How and when should you use this loop? Give an example.

4. What is the syntax of another one of the loops in your above answer? How and when should you use this loop? Give an example.

5. What is your favorite thing you learned this week?