Arrow Functions

Basic Function

```
function sum(a, b) {
  return a + b;
}
var results = sum(1, 2);
```

Function Expression

```
var sum = function sum(a, b) {
  return a + b;
}
var results = sum(1, 2);
```

Arrow Function

```
var sum = (a, b) => a + b;
var results = sum(1, 2);
```

Arrow Multiline

```
var sum = (a, b) => {
  console.log("Adding Two Numbers");
  return a + b;
};
```

Map

Basic Map

```
var data = [1, 2, 3, 4, 5];
var dataCopy = data.map(function(item) {
   return item;
});
```

Map with Arrow

```
var data = [1, 2, 3, 4, 5];
var dataCopy = data.map(item => item);
```

Map with Array of Objects

```
var data = [{x: 1, y: 1}, {x: 2, y: 3}, {x: 3, y: 5}];
var xData = data.map(obj => obj.x);
var yData = data.map(obj => obj.y);
```

Math Functions

```
min() max()
abs() sqrt()
random() round()
```

Filter

Basic Filter

```
var data = [1, 2, 3, 4, 5];
var filteredData = data.filter(function(item) {
  return item < 3;
});</pre>
```

Filter with Arrow Function

```
var data = [1, 2, 3, 4, 5];
var filteredData = data.filter(item => item < 3);</pre>
```

Filter by Object Values

```
var data = [{x: 1, y: 1}, {x: 2, y: 3}, {x: 3, y: 5}];
var xFiltered = data.filter(obj => obj.x < 3);</pre>
```

Array Functions

push()	concat()
slice()	splice()
split()	join()