

password is **student** all lowercase

Do Now

- 1) Go to **keithleyslhs.weebly.com** → **Intro to Comp Sci** page and locate the buttons for **Do Now JavaScript Objects**.
- 2) Analyze the Javascript code for each example. How are they similar? How are they different?



JavaScript: Objects

What are objects?

- Objects are a type of variable.
- Objects are variables that hold more data using a “**key:value**” pair system.
- Keys, also called properties, are strings
- Values can be any type of data (numbers, booleans, strings, arrays, other objects, etc.)

Why objects?

- What other variables can hold more than one piece of data?

```
var keithley = ["Anthony", "SLHS",  
"skateboarding", "Lizzy", "Cornelius",  
"Tiffany", "burritos", "chili"];
```

- What do we use to access that data?
- What if I wanted a more clear way to access the data?

Object Example

```
var teacher = {  
  "name": "Keithley",  
  "age": 33,  
  "subject": "Comp Sci",  
  "dope": true  
};
```

Note: each key:value pair is separated by a **comma**

`teacher` is the **name** of the object.

`name`, `age`, `subject`, and `dope` are **properties** of the object

`"Keithley"`, `33`, `"Comp Sci"`, and `true` are all **values** that correspond to the keys

Object Example

```
var teacher = {  
    "name": "Keithley",  
    "age": 33,  
    "subject": "Comp Sci",  
    "dope": true  
};
```

Notice: In one variable named teacher, we can store **two strings**, a **number**, and a **boolean** value

Object Example

```
var teacher = {  
  name: "Keithley",  
  age: 33,  
  subject: "Comp Sci",  
  dope: true  
};
```

Note: If your property names are only one word, you do not need to surround them with quotes.

Check the French and Tagalog objects in today's examples

Accessing Property Values

Two ways:

1. With the dot operator

`teacher.subject` returns "Comp Sci"

2. With bracket notation

`teacher["dope"]` returns `true`

Building Objects

- Go to bit.ly/objectExample and play around with the app.
- Complete the worksheet.

Object methods

- Definition:
 - a method is a function that is called on an object

Example:

```
var name = "Jimbo";  
console.log(name.substring(3));
```

Which part of the second line is a method?

substring

Object methods

- Methods are called using the dot operator on the name of the variable or object

Example:

```
name.substring(3)
```

name is the **variable/object**

substring is the **method**

connected with the “.” dot

Built-in Objects

- There are many object types built into Javascript that we can use with their own methods.
- Go to the link below to investigate the Date object type

bit.ly/dateObjectExample