

# Coding Fundamentals ASPIRE

[8/11 - 12/12]

Helix Charter High School  
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# Week 3 [8/25 + 8/29]

Welcome!

- Mondays: Discussion + Activity
- Fridays: Review + Programming Exercise

What do you want to learn?

What do you care about?

What do you want to accomplish?

feedback!



# Week 3    [8/25 + 8/29]

Topics I hope to cover:

- GitHub (How to use and let's set one up!)
- AI (Machine Learning vs Generative AI vs Image Detection, let's break it down (and make one of our own))
- How to code! (Some practical skills, and also best practices)
- Binary (What is it? Why is it important? Who cares?)
- Robotics (What do you need to get a robot working?)
- How does your computer work? (What do computers do when you're not looking?)
- What do you want to learn?

# Week 3    [8/25 + 8/29]

What is a Function?

Takes input -> does something -> gives output

Why use Functions?

Functions

- def
- name
- parameters
- return

```
def double(n):  
    return n * 2  
  
print(double(5))
```

# Week 3 [8/25 + 8/29]

Python's Standard Format

Define Functions

Define main function

Standard entrypoint for running programs

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```
#define your functions up here
def double(n):
    return n * 2

# main program
def main():
    #put your real code here
    print(double(5))

#this is just standard
if __name__ == "__main__":
    main()
```

# Week 3    [8/25 + 8/29]

Coding activity! Get out your Chromebooks!

Everyone look up:

python online compiler

Or

Go to:    <https://tinyurl.com/yc4w9mdh>



# Week 3 [8/25 + 8/29]

Programming Challenge:

Make a Role Playing Game

1. Get input from the user
2. Use at least one if/else statement
3. Use at least one function multiple times
4. Use the python standard main function

```
#define your functions up here
def double(n):
    return n * 2

# main program
def main():
    #put your real code here
    print(double(5))

#this is just standard
if __name__ == "__main__":
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