

# THINK LIKE A COMPUTER: COMMANDS AND SEQUENCES

## Lesson 1





# CODING







# CODING



# LET'S GET STARTED

1. You get to tell me what to do!
2. Pick something for me to do. Examples:
  - Draw a smiley face on the board.
  - Do 5 jumping jacks.
3. I won't know what it is you want me to do, so you have to give me good directions for how to do it.



# LET'S GET STARTED

1. You get to tell me what to do!
2. Pick something for me to do. Examples:
  - Draw a smiley face on the board.
  - Do 5 jumping jacks.
3. I won't know what it is you want me to do, so you have to give me good directions for how to do it.



**2 MINUTES**



**2 MINUTES**



**TELL ME WHAT TO DO!**





**TELL ME WHAT TO DO!**



# DID IT WORK?

- Did I do what you intended for me to do?
- What parts of the instructions were clear?
- What parts weren't?
- How could you improve the instructions?



# DID IT WORK?

- Did I do what you intended for me to do?
- What parts of the instructions were clear?
- What parts weren't?
- How could you improve the instructions?



# IMPORTANT VOCABULARY

**Command:** A code that tells the computer to perform a specific action.

**Sequence:** The order in which the commands are given.



# IMPORTANT VOCABULARY

**Command:** A code that tells the computer to perform a specific action.

**Sequence:** The order in which the commands are given.



# HIDE AND SEEK

1. Find a hiding place for your special prize.
2. Use your iPad camera to record walking directions for someone else to find the object, starting from this room.
3. Record your video from one spot. Do not use the camera to show where the object is hidden.
4. Someone will use your directions to try to find the special prize!





# HIDE AND SEEK

1. Find a hiding place for your special prize.
2. Use your iPad camera to record walking directions for someone else to find the object, starting from this room.
3. Record your video from one spot. Do not use the camera to show where the object is hidden.
4. Someone will use your directions to try to find the special prize!









Share your video with a partner via  
AirDrop and have them follow your  
directions!





Share your video with a partner via  
AirDrop and have them follow your  
directions!



# LET'S DISCUSS

Were you successful? Describe your experience.

Were any important directions left out?

What would you do differently next time?





# LET'S DISCUSS

Were you successful? Describe your experience.

Were any important directions left out?

What would you do differently next time?



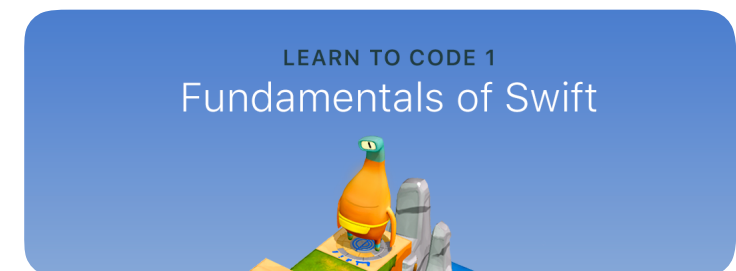
# TIME FOR SWIFT PLAYGROUNDS

Chapter: Commands

Activities: Introduction to Portal Practice

.....

**REMINDER:** Take videos and or photos of your playgrounds. You will need them for your portfolio.



Commands	
Introduction	✓
Issuing Commands	✓
Adding a New Command	✓
Using the Right Command	✓
Portal Practice	✓
Finding and Fixing Bugs	
Bug Squash Practice	
The Shortest Route	



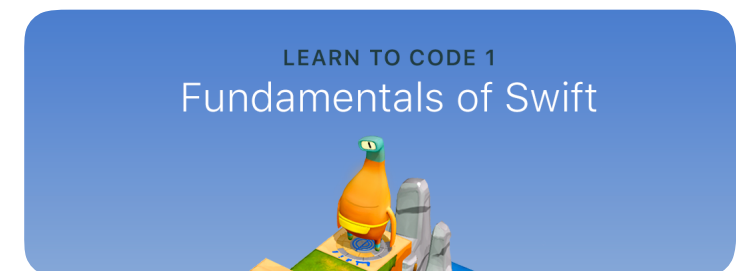
# TIME FOR SWIFT PLAYGROUNDS

Chapter: Commands

Activities: Introduction to Portal Practice

.....

**REMINDER:** Take videos and or photos of your playgrounds. You will need them for your portfolio.



Commands	
Introduction	✓
Issuing Commands	✓
Adding a New Command	✓
Using the Right Command	✓
Portal Practice	✓
Finding and Fixing Bugs	
Bug Squash Practice	
The Shortest Route	





Share what you did in Swift  
Playgrounds with AirPlay





Share what you did in Swift  
Playgrounds with AirPlay



# LET'S REFLECT

1. How many moves did it take to solve the puzzle?  
If you added more moves, would you still solve the puzzle?
2. How many commands did you write?
3. How did it compare with the video directions you made?





# LET'S REFLECT

1. How many moves did it take to solve the puzzle?  
If you added more moves, would you still solve the puzzle?
2. How many commands did you write?
3. How did it compare with the video directions you made?



# LET'S REFLECT

4. Think of a digital game you play. What are a few commands and sequences you would need to play that game?
5. How does “thinking like a computer” compare with “thinking like a human”?

Think ahead: What do you do when your code doesn't work?



# LET'S REFLECT

4. Think of a digital game you play. What are a few commands and sequences you would need to play that game?
5. How does “thinking like a computer” compare with “thinking like a human”?

Think ahead: What do you do when your code doesn't work?



# JOURNAL

1. Upload your video directions.
2. Upload screenshots from Swift Playgrounds.
3. Record answers to these questions:
  - What is a command? What is a sequence?  
(Use your own words.)
  - What did you learn about giving directions and thinking like a computer?



# JOURNAL

1. Upload your video directions.
2. Upload screenshots from Swift Playgrounds.
3. Record answers to these questions:
  - What is a command? What is a sequence?  
(Use your own words.)
  - What did you learn about giving directions and thinking like a computer?



# **HOMEWORK**

- Play your favorite video games.
- Then go outside.
- Enjoy your weekend!



# **HOMEWORK**

- Play your favorite video games.
- Then go outside.
- Enjoy your weekend!

