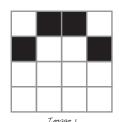
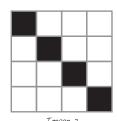
There are many options, here are the most efficient

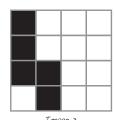
Teacher Key



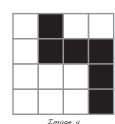
$$\rightarrow \mu \rightarrow \mu \rightarrow \mu \leftarrow \leftarrow \leftarrow \mu$$



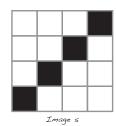
$$\mu \rightarrow \downarrow \mu \rightarrow \downarrow \mu \rightarrow \downarrow \mu$$



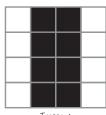
 $h \downarrow h \downarrow h \rightarrow h \downarrow h$



 $\rightarrow h \downarrow h \rightarrow h \rightarrow h \downarrow h \downarrow h$



 $\rightarrow \rightarrow \rightarrow \mu \downarrow \leftarrow \mu \downarrow \leftarrow \mu \downarrow \leftarrow \mu$



$$\rightarrow h \rightarrow h \downarrow h \leftarrow h \downarrow h \rightarrow h \downarrow h \leftarrow h$$



Unplugged

Name: _



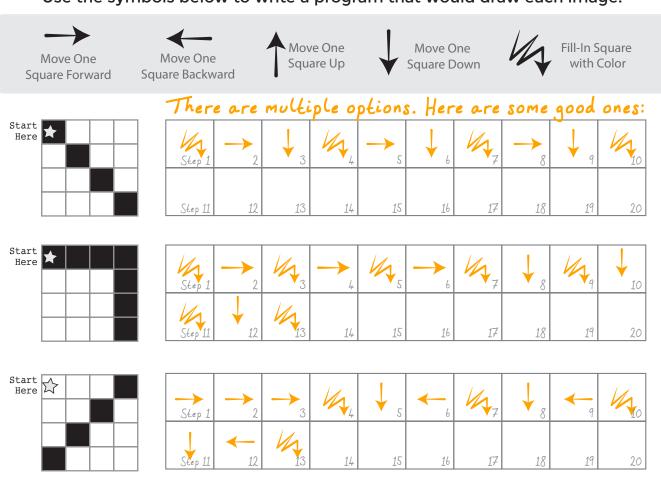
Graph Paper Programming

C O E

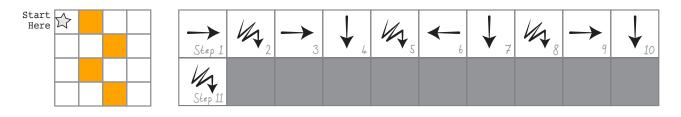
Assessment Worksheet

You have just learned how to create algorithms and programs from drawings, and how to draw an image from a program that someone gives to you. During the lesson, you worked with other people to complete your activities. Now you can use the drawings and programs below to practice by yourself.

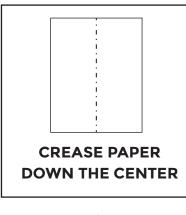
Use the symbols below to write a program that would draw each image.

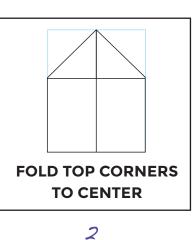


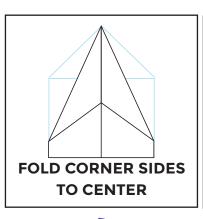
Now, read the program below and draw the image that it describes.



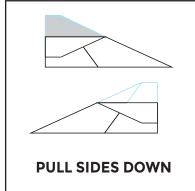
Teacher Key

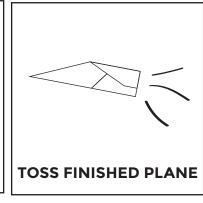












Unplugged

Name: _



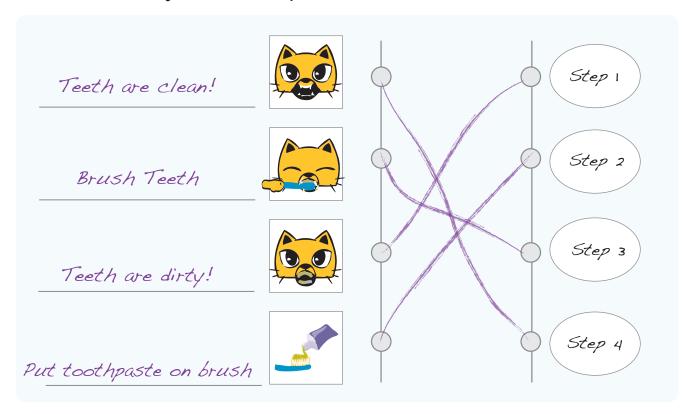
Daily Algorithms

C O D E

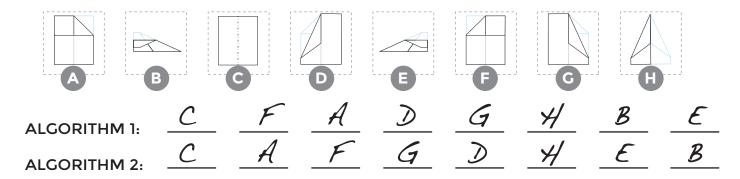
Assessment Worksheet

An algorithm is a list of instructions for acomplishing a task. We follow algorithms everyday when it comes to activities like making the bed, making breakfast, or even getting dressed in the morning.

These images are not in order. First, describe what is happening in each picture on the line to its left, then match the action to it's order in the algorithm. The first one has been done for you as an example.



Sometimes you can have more than one algorithm for the same activity. The order of some of these steps can be changed without changing the final product. Use the letters on the images below to create two algorithms for making a paper airplane.







Getting Loopy

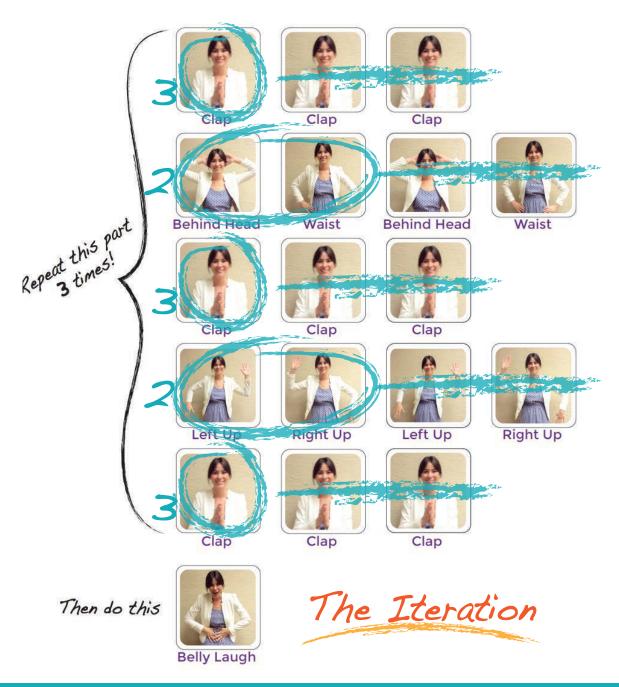
Unplugged Loops Activity



Looping can save space!

What if we wanted to take The Iteration dance below and make more loops inside? Can you circle the actions that we can group into a loop and cross out the ones that we don't need anymore? Write a number next to each circle to let us know how many times to repeat the action.

The first line has been done for you.







Debugging

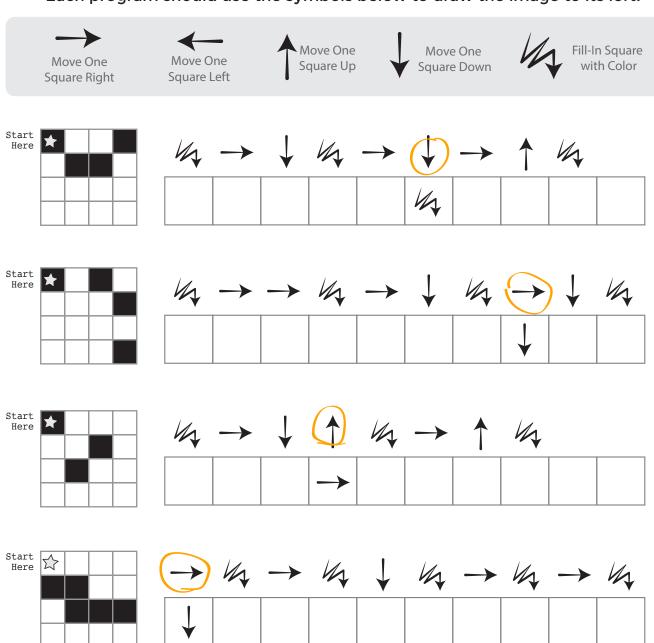
Assessment Worksheet



Sometimes when you are coding in groups, someone will make an error that will affect everyone.

Somebody has already written programs for the images below, but each one has a mistake! Figure out what the programs are *supposed* to look like, and circle the error in each one. Then, draw the correct symbol in the box beneath.

Each program should use the symbols below to draw the image to its left.





Name: _____



Conditionals with Cards

CO

Assessment Activity

Look at the program below.

The steps below show each team taking turns to play the Conditionals Game. See if you can figure out what happens for each draw. Write down the score during each round along the way. After three rounds, circle the winner.

If (CARD is lower than 5)

If (CARD is BLACK)

Award YOUR team the same
number of points on the card.

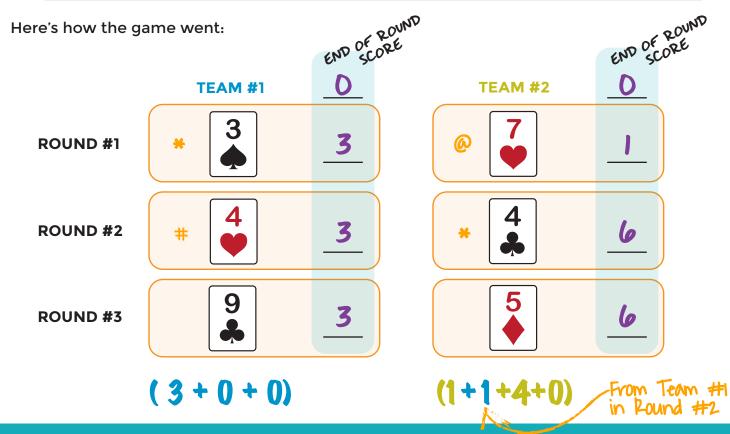
Else

Award OTHER team 1 point.

Else

If (CARD is HEARTS)

Award YOUR team 1 point





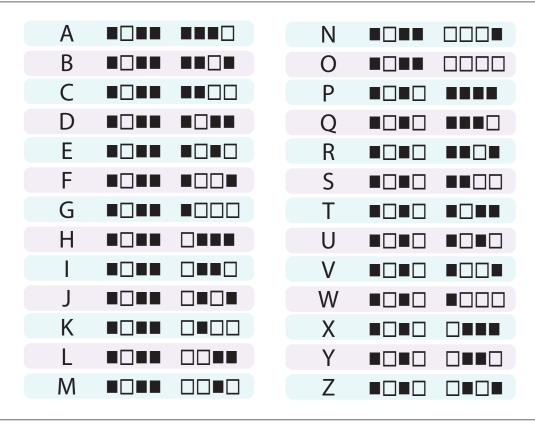


Binary Bracelets

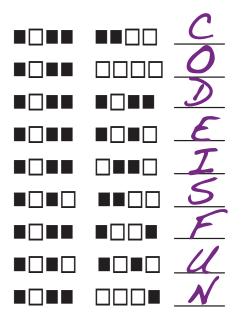
C O E

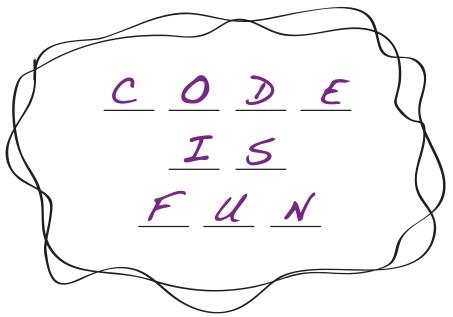
Assessment for Binary Bracelets Lesson

Use the Binary Decoder Key below to decode the message at the bottom of the sheet.



Can you figure out what the message says?









The Big Event

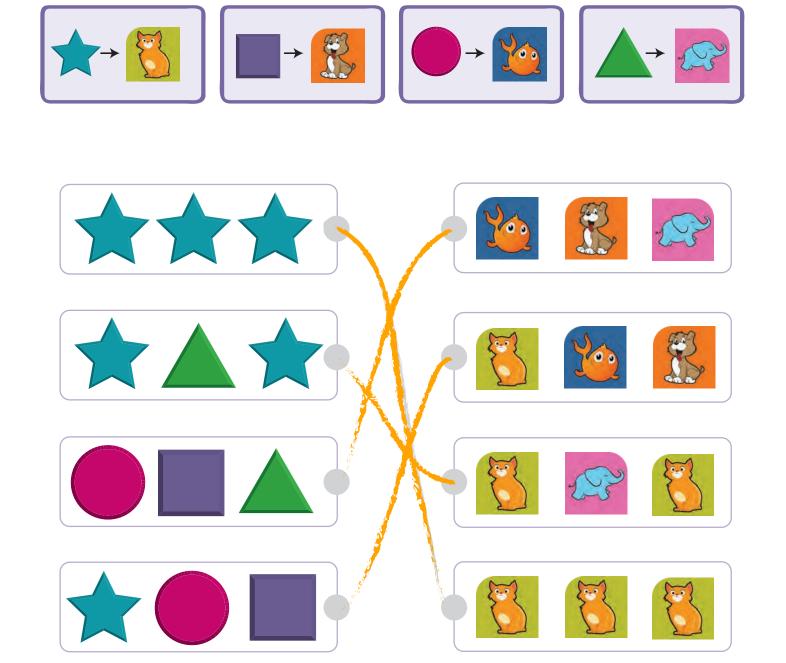
С

D E

Controlling by Events Assessment

You've been given a magical controller that changes the picture on the frame on your desk.

Take a look below to see what each button does. Can you figure out which series of button events will cause your frame to show the pictures on the right? Draw a line from each set of pictures to the button combination that causes it. The first one has been done for you.



Unplugged

Name: ___



Your Digital Footprint

C O D E

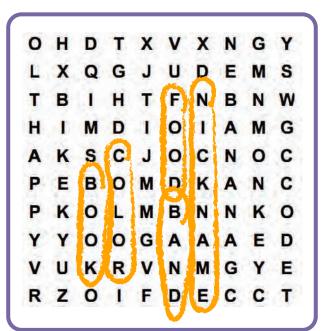
Staying Safe and Responsible Assessment

Just because you can share something online doesn't mean that you should!

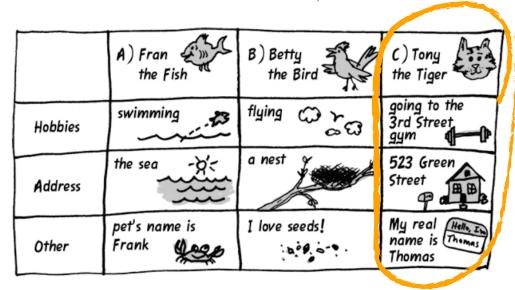
Cross out the information that you should not share online. Use the words that are leftover as the key to what you should find in the word search.

WORDS

- 1) Your Real Name (NAME)
- 2) Your Online Name (NICKNAME)
- 5) rour Address (ADDRESS)
- 4) Your Email (EMAIL)
- 5) Your Favorite Color (COLOR)
- 6) The Last Book you Read (BOOK)
- 7) rour Credit Card Inio (CARD)
- 8) Your Favorite Band (BAND)
- a) Your Prione Number (PHONE)
- 10) What You Ate Today (FOOD)
- 13) Tour Birthday (BirthDAY)



Which animal below has the digital footprint that leaves him or her most unsafe? HINT: Think about which animal shares the most private information online.



Circle One:

- A) Fran the Fish
- B) Betty the Bird
- C) Tony the Tiger



Follow The Digital Trail

Directions

Follow the trails of Mizzle the Mouse and Electra the Elephant. Fill in the chart below. Then answer the questions.

	Mizzle the Mouse	Electra the Elephant
1. Whose full name do you know?		- American
2. Whose house could you find?		Company of the Compan
3. Whose birth date do you know?		S. American
4. Whose username and password do you know?		1 market
5. Who let out a secret on the Internet?		Endower
6. Which animal can you describe better from his or her photo?		1 marketing

Question

1. Who can the detectives find out more about, and why?

Electra, because we now Know where Electra lives, what she looks like, and private and personal information about her life.

(Point out to students that having a bigger digital footprint means the detectives can learn more about them too.)

2. Which animal has a bigger digital footprint?

Electra, because she put more private and personal information online than Mizzle.





3. Mizzle says some funny things about himself on the Internet. What are they?

He says he likes Swiss cheese, his photo is of cheese, and he has a pet flea.

4. Is there anything that Electra posted on the Internet that could become a problem for her? If so, what and why?

Private and personal information (e.g., address, full name) allows others to learn more about her.

This could be unsafe. Saying that she fights with her brother could hurt her brother's feelings because it is public.

