

# Cat & Mouse Coding Supplement

This file includes all the code that students will need in order to create the Cat & Mouse video game project described in our 10-part video series. Students are encouraged to put their own spin on the project via customizations, but should be able to demonstrate at the end of each of the 10 chapters that they've accomplished the learning goal set out in each segment.

Along with code block images, this document includes:

- Specific learning goals for each chapter that will allow teachers to quickly confirm that students are following instructions.
- Guiding questions that can be discussed prior to each new chapter
- Troubleshooting tips gleaned from prior lessons

# Cat & Mouse Coding Supplement

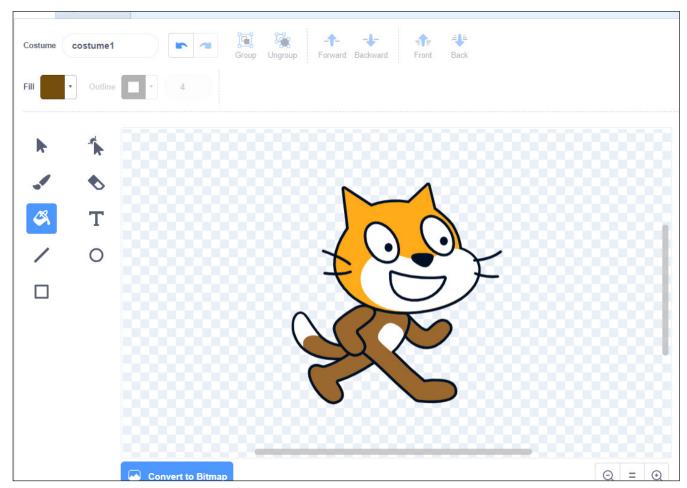


© 2020 by Chromeworks Tech Training

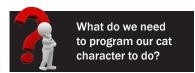
Founder and lead instructor Learning Design Advisor Andrew Tomec, OCT Glenn Boustead, OCT

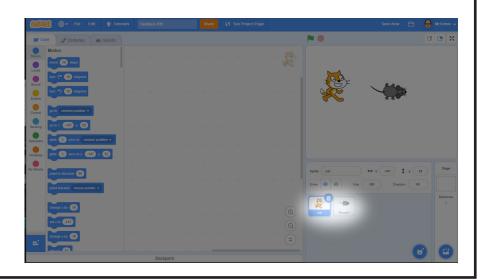


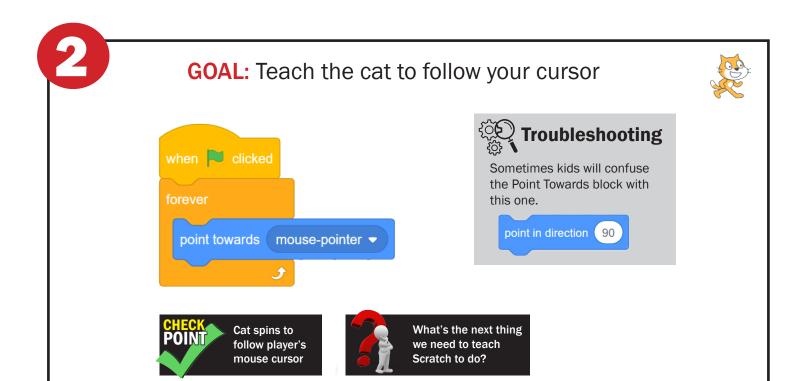
#### **GOAL:** Select and customize 2 sprites

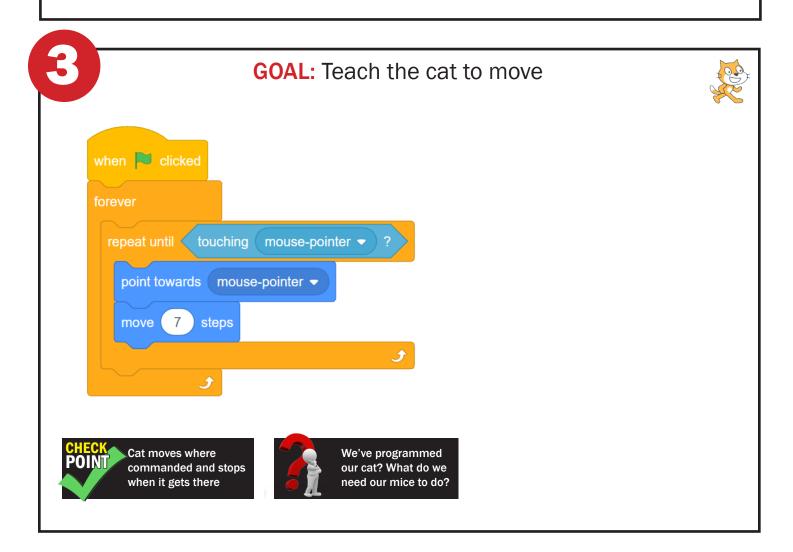








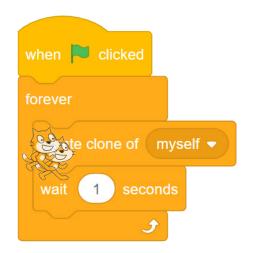






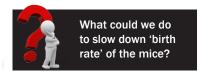
#### **GOAL:** Spawn a steady stream of new mice







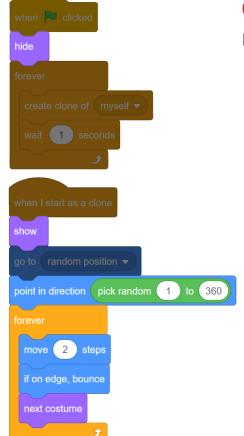






Make sure students are coding the mouse sprite. Each sprite has its own unique set of instructions, and placing commands in the wrong spot will cause unexpected results.

5



**GOAL:** Teach the mice to move realistically across the screen









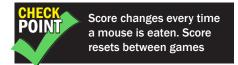


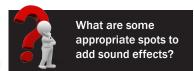
#### **LEARNING GOAL:** Keep score with variables









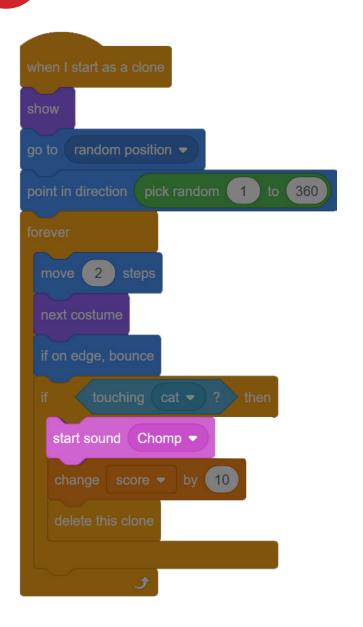


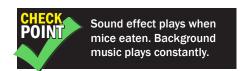


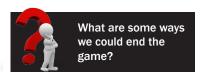
Confirm that the variable you are setting is "score" and not the default variable, "my variable."

#### **GOAL:** Enhance the game with sound effects









### Troubleshooting

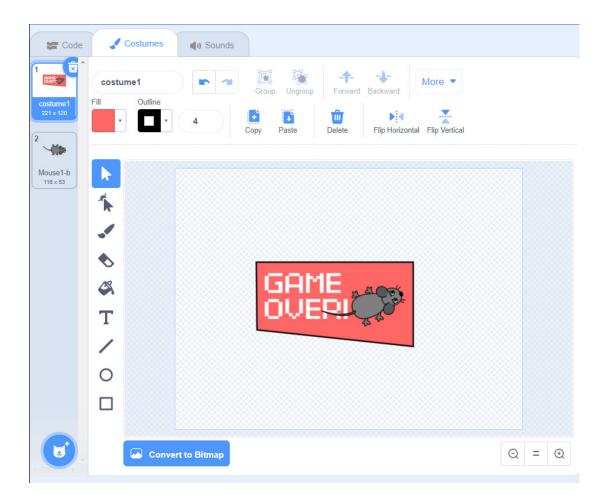
Start sound and Play Sound Until Done commands appear to do the same thing, but they are not interchangeable.

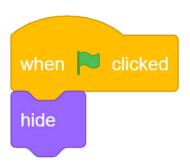
Sounds that have been loaded into a sprite are only available to that sprite. If a sound that you've loaded doesn't appear on the list, check your other sprites.

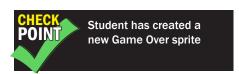


#### **GOAL:** Design a Game Over screen











# Troubleshooting

Students who've never used graphic design software will sometimes have trouble understanding that they have to switch to a different tool to modify their drawing. They'll draw a rectangle with the appropriate tool, and then forget to switch to the black arrow tool to modify it. If you see multiple overlapping boxes on their screen, it's probably this issue.



#### **GOAL:** End game after the timer runs out



