

# C3: Mole Mash Game

## Media Required:

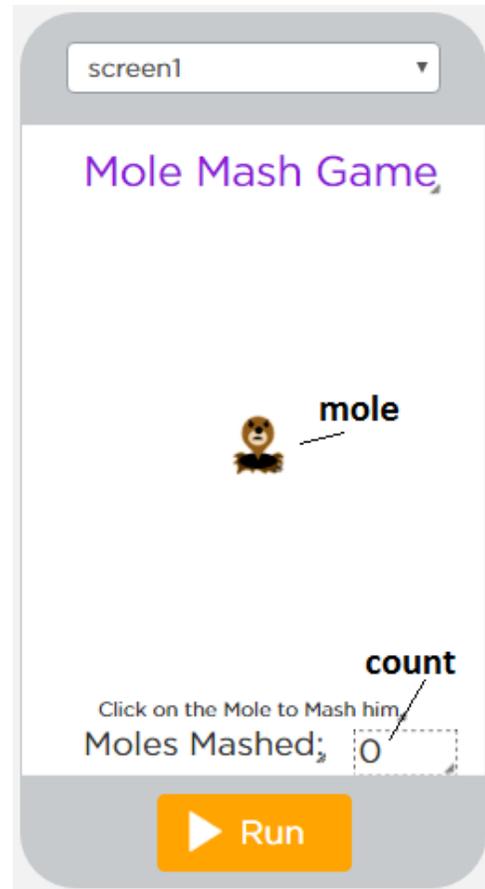
You need mole.png.

## Design Mode:

Create the adjacent app.

The two widgets that are important, the mole (an image) and the count (a label) are noted. The ids I used were mole and count.

Everything else is a label.  
There are no buttons.



## Code Editor:

### Mole Jump

Create two variables to track the mole's position on the screen.

```
var x = getXPosition(▼ "mole");  
var y = getYPosition(▼ "mole");
```

Then, create a time event to move the mole to a new random location on the screen. You will pick a random number for x and a random number for y.

```
setInterval( function() {  
  x = randomNumber(10, 300);  
  y = randomNumber(10, 400);  
  setPosition(▼ "mole", x, y, 36, 42);  
}, 900);
```

Because the screen is roughly 300 x 400 pixels, the random numbers for each dimension are slightly different.

Run the code. See if the mole hops around the screen randomly.

### Score

Now we need to code the “mashing” part. (We’ve finished the “mole” part).

Start by adding a variable to track our score. Add it underneath the x and y variables.

```
var caught = 0;
```

Then, add an onEvent. This time, we aren’t going to have a button that is clicked, we are going to have an image be clicked.

```
onEvent (▼ "mole", ▼ "click", function(event) {  
  caught = caught + 1;  
  setText (▼ "count", caught);  
});
```

When the mole is clicked, you increase the score by 1 and show it out on the screen.

Run the code. See if the score increases when you click on the mole.

### Move the Mole

There is one problem: when you click on the mole, he doesn’t jump to a new locations, so the user can cheat and click a lot of times.

Edit the onEvent block:

```
onEvent (▼ "mole", ▼ "click", function(event) {  
  caught = caught + 1;  
  setText (▼ "count", caught);  
  x = randomNumber (10, 300);  
  y = randomNumber (10, 400);  
  setPosition (▼ "mole", x, y, 36, 42);  
});
```

Add the code from the setInterval block that moves the mole around. Now, when the mole is clicked, he will move right away.

A good way to add this code it to pop over to the text editor and cut and paste the lines of code.

[Show Text](#)

```
x = randomNumber(10, 300);  
y = randomNumber(10, 400);  
setPosition("mole", x, y, 36, 42);
```

Test it. Have Ms. Gorski check it.