LOOP: ANIMAL PARADE

Use a **repeat loop** to control *how many times* an action happens

Click for help navigating Scratch!

GET YOUR HEAD IN THE GAME:
Read the **title**, **instructions** (how to use it) and **purpose** (skills you'll learn)

Play: Click on stuff, circle what you saw

Press one number at a time and count how many times the Dog walked or the Bee buzzed.

1. Circle the number of times the dog walks.

1   0   1   (2)   3   4   **3**   (0)   1   2   3   4   **5**   (0)   1   2   3   4

2   0   1   2   (3)   4   **4**   (0)   1   2   3   4

2. Circle the number of times the bee buzzed.

1   (0)   1   2   3   4   **3**   0   1   2   (3)   4   **5**   0   (1)   2   3   4
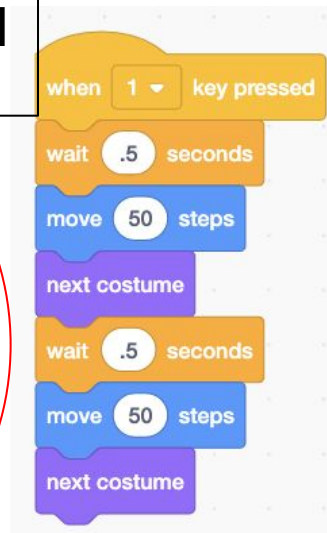
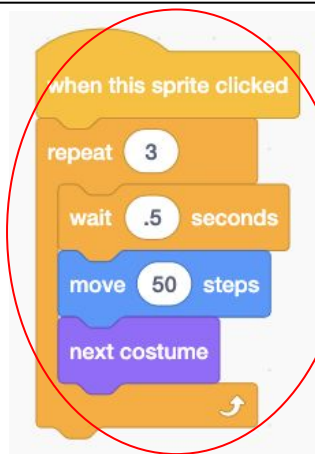**2**   (0)   1   2   3   4   **4**   0   1   2   (3)   4

1

Now let's **Explore** the code.
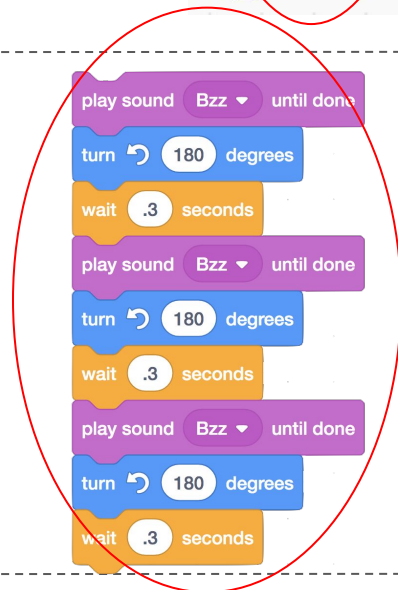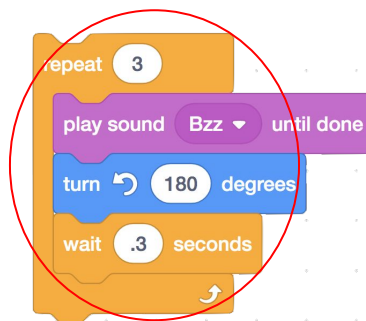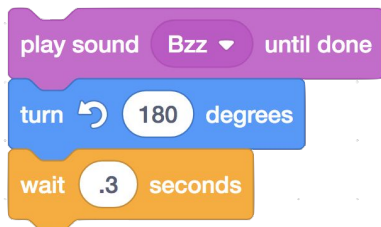Click on [🔵 Remix] to make your own copy.
Click on the sprite tile under the stage to find the sprite's scripts.

3. Circle the two scripts that do the **same thing**.
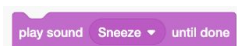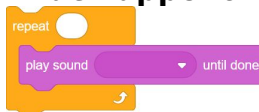
```
when this sprite clicked
repeat  3
    wait  .5  seconds
    move  50  steps
    next costume
```

```
when  1 ▼  key pressed
wait  .5  seconds
move  50  steps
next costume
wait  .5  seconds
move  50  steps
next costume
```

```
when  2 ▼  key pressed
wait  .5  seconds
move  50  steps
next costume
wait  .5  seconds
move  50  steps
next costume
wait  .5  seconds
move  50  steps
next costume
```

4. Circle the two scripts that do the **same thing**.

```
play sound  Bzz ▼  until done
turn ↺ 180 degrees
wait  .3  seconds
```

```
repeat  3
    play sound  Bzz ▼  until done
    turn ↺ 180 degrees
    wait  .3  seconds
```

```
play sound  Bzz ▼  until done
turn ↺ 180 degrees
wait  .3  seconds
play sound  Bzz ▼  until done
turn ↺ 180 degrees
wait  .3  seconds
play sound  Bzz ▼  until done
turn ↺ 180 degrees
wait  .3  seconds
```

Tinker Time! Find Dog's code. **Explore** what happens when you:
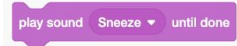
Add a `play sound  Sneeze ▼  until done` block **into** the loop.

```
repeat
    play sound  ▼  until done
```

How many times does the Dog "Sneeze"?

1   2   ③   4   5

Add a `play sound  Sneeze ▼  until done` block **after** the loop.

```
repeat

play sound  ▼  until done
```
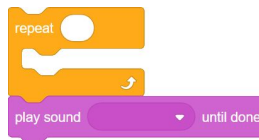
How many times does the Dog "Sneeze"?

①   2   3   4   5

Change the number 3 in the loop `repeat ◯` to 2.   Does the Dog move **MORE** or **LESS**?

Your Quest:
1.   Make scripts for the Kangaroo and Grasshopper using a repeat loop.
2.   Make a script that makes the Bee fly around in a circle when it is clicked (use next costume, turn, and move steps blocks).

OTHER BLOCKS TO PLAY WITH

```
change size by  10
```
```
move  ◯  steps
```
```
change  color ▼  effect by  ◯
```

2