

Use the programming power of Scratch to create your own moving mythical creature! Scratch is a programming language that can be used to design your own interactive stories, games, and animations. You can pick a creature from the library or draw your own, then program it to switch between different 'costumes' with the push of a button to watch your creature move!

TEKS:

6.4B Plan and manage activities to develop a solution, design a computer program, or complete a project. FCS.4E Demonstrate coding proficiency in a contemporary programming language by developing solutions that create stories, games, and animations.

How To:

- 1. Log in to Scratch and click
- 2. Delete the current sprite on the screen by right clicking the picture of it at the bottom and clicking delete.

Create





3. You will then want to add a new sprite, which will be your mythical creature at rest. To do this, either choose one from the library by clicking , or draw your own by clicking . Click on the

Costumes

tab to start editing.

- * <u>Note</u>: Each 'costume' for your creature changes its position so that your creature looks like it is moving when you switch costumes.
- 4. After you have finished your at-rest creature, right click on the picture of it under the 'Costumes' tab and click duplicate.

*<u>Note</u>: sprites from the library may have more than one preset costume. If there are four costumes already and you wish to use those, then skip to Step 8. Otherwise, follow the instructions below (in order).

SCRATCH 🌐 File 🔻 Edit 🔻 Tips About 🚨 🐥	XX X Ø Saved <mark>8</mark> kkoala44▼	
Untitled-4	Scripts Costumes Sounds Share 4 See project page	
V428a by KNOBIA++ (UISINAICU)	New costume: costume1 Clear Add Import of	
	costume g2xt00 delete save to local file	
X: -180 y: 180		
Sprites New sprite: 💠 🖊 📥 💿		
Stage 1 backdrop	100% Vector Mode Convert to bitmap	
New backgrop:	Backpack	
W at tooks like you haven t started rifelox in a write. Do you want to clean it up for a fresh		
31 Days of STEM FUN!		
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14. Repeat steps 9 through 13, switching which arrow key and costume you use each time, until you have a block batch for each arrow key. When you are through, your screen should look something like this:

when up arrow key pressed	
when up allow wey pressed	when down arrow key pressed
switch costume to costume2	switch costume to costume3 -
wait 5 secs	wait 0.5 secs
switch costume to costume1	switch costume to costume1
when right arrow key pressed	when left arrow key pressed
switch costume to costume4	switch costume to costume5 -
wait 0.5 secs	wait 0.5 secs
switch costume to costume1	switch costume to costume1 •

Congratulations, you have now finished programming your mythical creature. Now press the different arrow keys to switch between costumes and watch your creature move!

Career Connection:

Computer programmers write the instructions for software programs on computers. Once software developers and engineers create design specifications for a particular program, like an app or a game, computer programmers create directions for the program that the computer can understand. They will write code (the computer language), solve problems, debug, test, and rewrite the code until the program works effectively and efficiently. Some of the most common computer languages in existence include C++ and Python.

Resource:

• http://scratch.mit.edu/



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