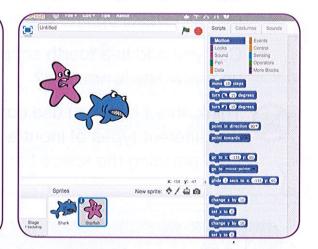
Activity 4: Scratch Using time to sequence events

You can program more than one sprite within an animation in Scratch. Use the steps below to animate a conversation between a shark and a starfish.

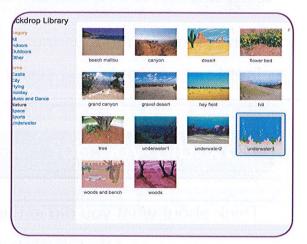


Right-click on the cat and click on delete to remove it. Now click on the Choose sprite from library ricon and then click on Animals. Select Shark and click OK. Go back to the library and choose Starfish. Click OK.

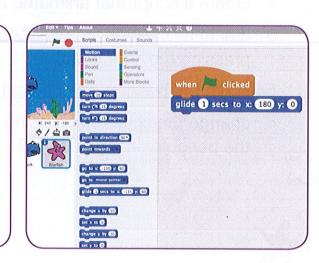
We need two sprites so they can talk to each other.



Click on the Choose backdrop from library icon and click on the Nature theme. Select underwater3 and then click OK.

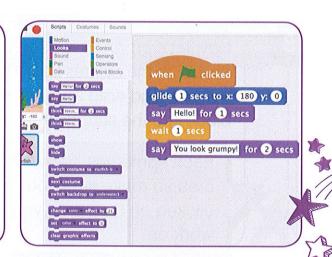


Select the starfish sprite in the Sprites box and then click on the Scripts tab. Click on Events and drag a when clicked block into the scripts area. Now click on Motion and snap a glide... block underneath. In the x box, type 180. In the y box, type 0.



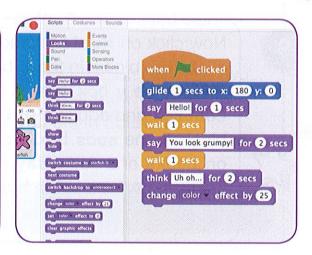
4

Click on Looks and drag across a say Hello! for 2 secs block. In the secs box, type 1. Now click on Control and drag across a wait 1 secs block. Go back to Looks and snap on another say... block. In the first box, type You look grumpy!.



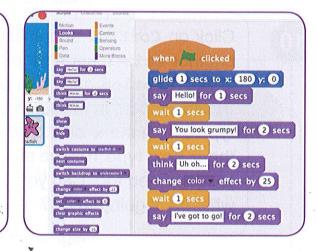
5

Go back to **Control** and drag across another **wait 1 secs** block. Then go back to **Looks** and snap a **think Hmm... for 2 secs** block on. Type **Uh oh...** in the first box. Then snap a **change color effect by 25** block underneath too.



6

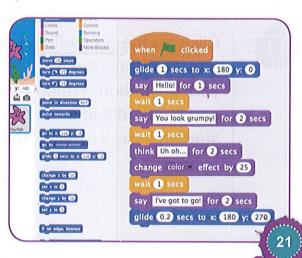
Click on **Control** and snap on another **wait 1 secs** block. Then go back to **Looks**. Snap on another **say**... block but this time type in the first box **I've got to go!**.



7

The starfish script is almost done!

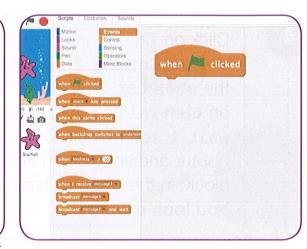
Just click on Motion and snap on
a glide... block. In the secs box,
type 0.2. In the x box, type 180. In
the y box, type 270. The script for
the starfish is now ready. Read over
it. What do you think it will do?

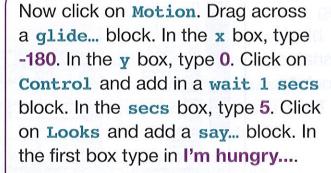


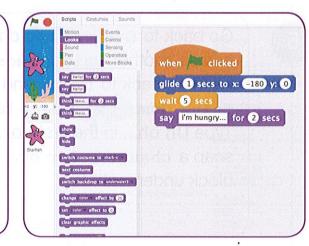
20

Now let's program the shark. Click on Shark in the Sprites box. Then click on Events and drag a when / clicked block into the scripts area.

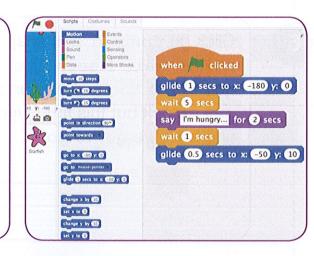
Each sprite has its own scripts area so make sure you have clicked on the sprite you want to work on.



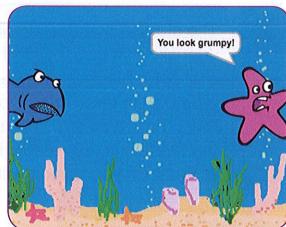




Click on **Control** and snap on another wait 1 secs block. Finally, click on Motion and snap on a glide... block. In the secs box, type 0.5. In the x box, type -50. In the y box, type 10. The shark is now programmed too. Can you predict what he is going to do?



Click on the green flag icon rat the top of the preview window to begin your animation. Watch as the starfish and shark talk to each other and the starfish swims away at the end.



Now try this ...

- o Can you add some more say... and wait... blocks and make the conversation between the shark and starfish a bit longer?
- o Can you use the switch costume to... block to use the other costumes both sprites have?
- o Can you change the ending so the shark follows the starfish as he swims away?
- o Can you add in a third sprite, perhaps a fish, for the shark and starfish to talk to?



Can you write down two scripts that code a conversation between two friends? They can be talking about what they did at the weekend. Use the commands wait... and say... just like you did in Scratch.



Can you explain to a partner what these words mean?

sequence

conversation

program

script

How did you do?

Think about what you did in this activity. Did you:

create an animation with two sprites interacting with one another?

- change the script to make the conversation longer?
- change the script to include costume switches?
- change the script so the ending of the animation changed?
- add in a third sprite?



