

INTERACTING SPRITES MODULE 3: INVESTIGATION 4

Interactive Stories





Activity 3.4.1 – Unplugged: Reading Scripts



ACTIVITY 3.4.1: UNPLUGGED

Reading Scripts

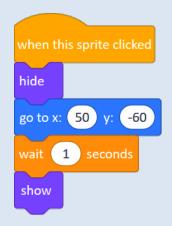


Activity 3.4.1 – Unplugged: Reading Scripts



- Read the scripts below and answer the question next to it.
- Circle the script that will make Nano disappear, teleport to a random position and then reappear after one second.



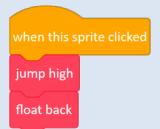




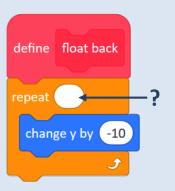


2 What **number** should go in the repeat block so that Tera floats back to the same position when she is clicked? Explain why.









Repeat number =

Explain why =



Activity 3.4.1 – Unplugged: Reading Scripts



Will Tera move up or down when the script on the right is clicked? Explain your thinking. Tera will move because =	when this sprite clicked change y by pick random -50 to -10
4 Circle the purple block that should be added in the script on left to make P when this sprite clicked forever move 3 steps wait 0.2 seconds if on edge, bounce	ico walk like the picture below. change size by 10 next costume show switch costume to walking 2 •



MODULE 3: INVESTIGATION 4

Activity 3.4.1 – Unplugged: Reading Scripts



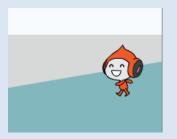
5 Giga is walking towards Nano (see picture). For each of the blocks below fill in the value that will be shown when it is clicked. touching Nano ▼ touching color touching color 6 Next to each of the blocks on the right fill in the direction that Tera would move when that block is clicked. change y by (50) change x by 70 Will Tera move Up, change x by (-20 change y by (-80 Down, Left or Right?



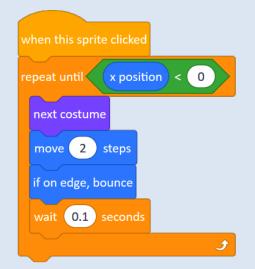
Activity 3.4.1 – Unplugged: Reading Scripts



7 Pico is near the right edge of the stage. Circle the script that will make him walk and stop when he reaches the middle of the stage.



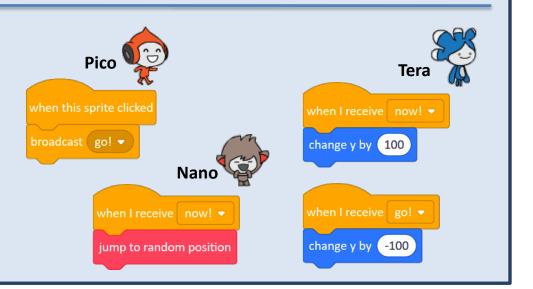






8 Look at Pico's script on the right. What will Nano and Tera do after Pico is clicked? Explain what will happen on the screen in the box below.

When Pico is clicked...

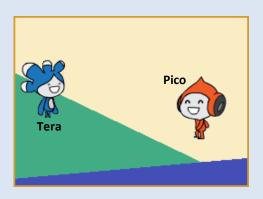


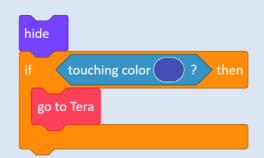


Activity 3.4.1 – Unplugged: Reading Scripts



9 Look at the current position of Pico on the stage. The scripts on the right are in Pico's script area - explain what will happen when we click each of the scripts on the right.







```
if touching color ? then
go to Tera

say Hello! for 2 seconds
```

When this script is clicked... what will happen?

When this script is clicked... what will happen?

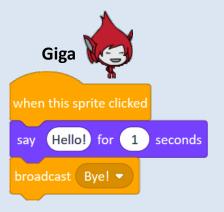
When this script is clicked... what will happen?



Activity 3.4.1 – Unplugged: Reading Scripts



(10 [Extension] When Giga is clicked what will Nano do? Write your answer in the box on the right.





When Giga is clicked Nano will...



Activity 3.4.2 – Extension: The Story of the Sprites



ACTIVITY 3.4.2 Extension: The Story of the Sprites



MODULE 3: INVESTIGATION 4

Activity 3.4.2 – Extension: The Story of the Sprites



Continue in one of your **31-Multiple Sprites** projects.

- Choose two or more characters from Nano, Tera, Pico and Giga and plan out your story:
 - How do these characters know each other?
 - How could one character visit or greet the others?
 - What could they say to each other? What will they do together?
 - What could happen when one character touches another character?
- Build and debug the scripts for all new behaviours and interactions between your characters.



MODULE 3: INVESTIGATION 4

Activity 3.4.2 – Extension: The Story of the Sprites



- Explain your story to others, share it with them.
- Exchange your scripts with other groups. Modify the script or scripts you got from other groups to fit into your story.

- What interactions did you build?
- Did you incorporate a script from another group? How did you do this?
- Did you learn any new ideas from the other groups? Did they learn anything new from your group?





My Investigation 4 check list:		
Our group built an interactive story between two or more sprites.		
We prepared a plan for our story.		
We built several Scratch scripts to implement new behaviours.		
We built several interactions between our characters, using the broadcast <i>message</i> and when I receive <i>message</i> blocks.		
We shared a script with another group who used it in their own story project.		
We used a script from another group in our story project.		
We modified a script shared by another group within our story project.		