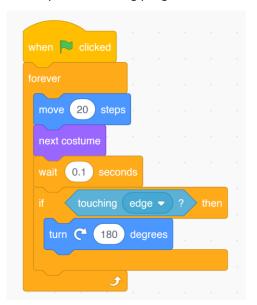


## **Worksheet - Scratch**

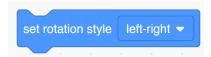
For each exercise, create a new project and save it regularly.

Exercice 1. Develop the following program and run it!



 What do you observer? Fix the issue by setting the direction possibility to left-right. You can do this visually or using the following code block:





• Where would you put the code snippet?

Exercice 2. Create a copy of your previous exercice and extend by a bear that does the exact same thing as the cat! Also add a safari-like background.





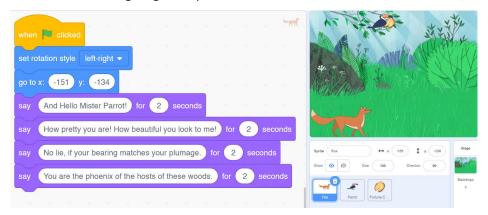




## ICT Start – Module 1: Scratch Exercises



**Exercice 3.** Create the following stage setup:



- In this task you have to give the parrot nice compliments so that he says thank you and drops the fortune cookie so that the fox can grab it!
- The parrot should drop the fortune cookie after the last compliment by answering "Thank you".



• Then the fox should go and get it.



Then the parrot should get upset and fly away.



Exercice 4. Create the stage setup as depicted in the right picture. In this task, you shall be able to control a shark using the arrow keys. The shark should look change his animation and look in the right direction every time he moves. One movement should be 10 pixels.







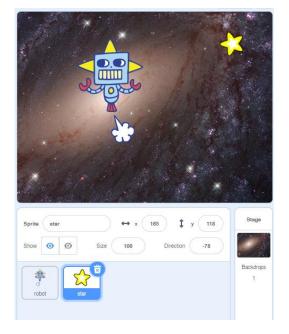


## ICT Start – Module 1: Scratch Exercises



• Extend the exercise with two more keys: When the user presses "a" the shark shall grow by 5%. When the user presses "s" he shall shrink by 5%. Remember to reset the size every time you restart the game!

**Exercice 5.** Create the following stage setup:



- In this task you have to move a robot and a star to randomly selected positions.
- If the robot catches the star, it should visually represent this using a message.
- The robot should glide to the random position whereas the star should teleport every 2 seconds to a random position.
- Extension: Adopt your solution such that the robot tries to follow the star instead of moving to a random position.

Exercice 6. [Optional] Create the following stage setup as depicted in the right picture. In this task you have to catch falling apples using a basket. Only 1 apple can fall at a time. If the apple is caught, a suitable message should appear and the apple should fall again from above at a new random position. The same should happen if you miss the apple, but with a different message.





