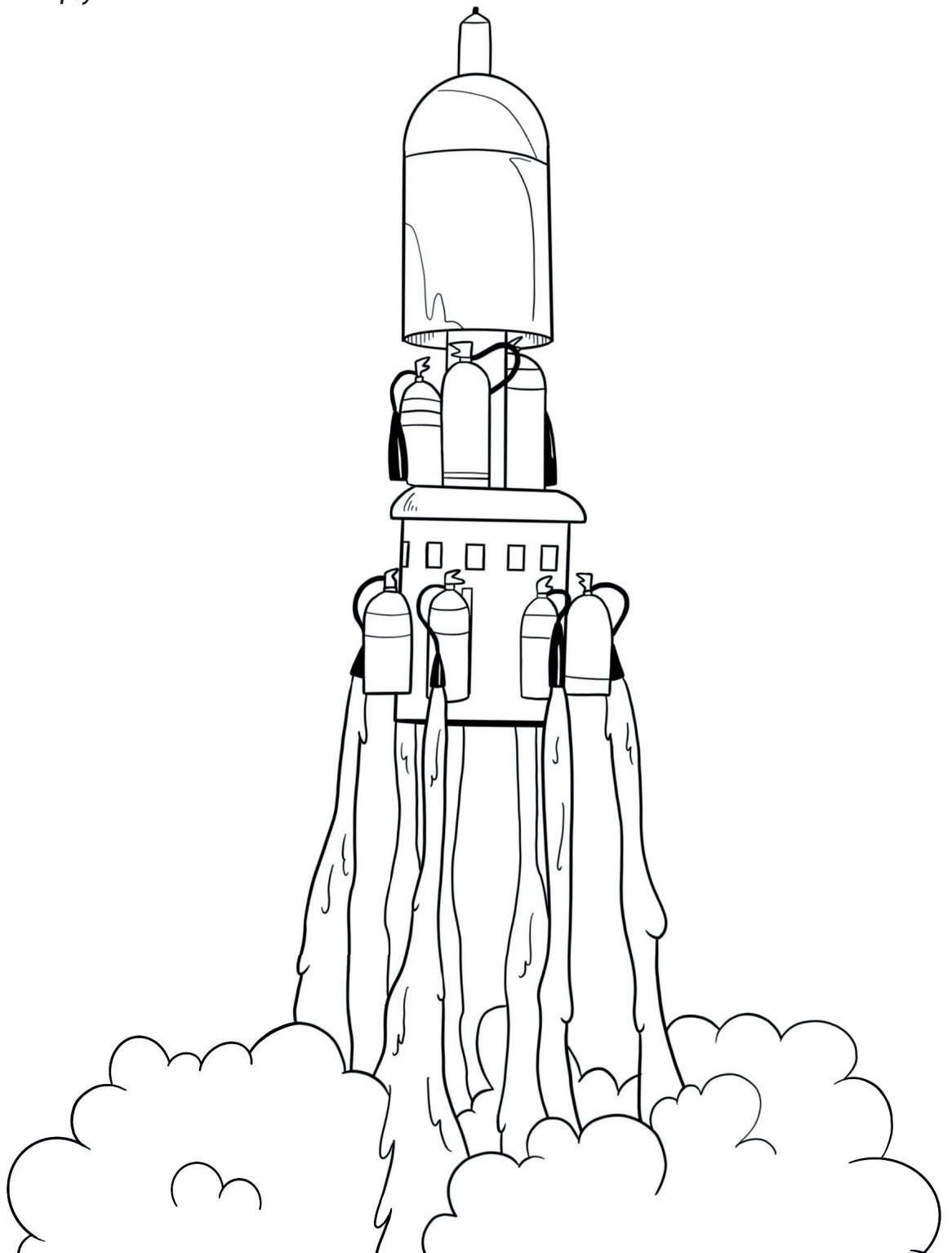
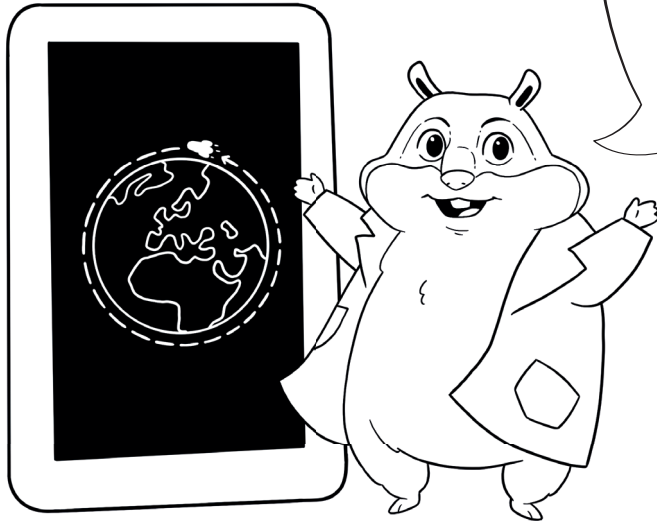


# 3-2-1 LIFTOFF!

*Fly Elon to the International Space Station*





Hey, fellas! Did you enjoy our adventure? Me and Eight had a great time, so we decided to do another one! This time we want to go all the way to the International Space Station. It orbits the Earth just like Eight's ship. If you help us solve all the challenges, we'll definitely get there together! Add up the points for the correct answers and see how we did on the last page.

### 1 • Select one correct option

Which means of transport is best suited for spaceflight?

- balloon
- airplane
- elevator
- rocket

What is the name of the suit that an astronaut has to wear when going into space?

- spacesuit
- overalls
- jacket
- wetsuit

All objects orbiting the Earth and other celestial bodies are called?

- circulators
- rockets
- station
- satellites

What is the name of the hole on a planet, moon, or other cosmic body made by a falling object?

- valley
- crater
- borehole
- meteorite

## 2 • Determine the accuracy of the statement

Planes fly higher than orbital stations.	YES   NO
The inflatable balloon flies high when inflated with the mouth.	YES   NO
The rocket motors are located on the bottom of the rocket.	YES   NO
The Earth's gaseous envelope is called the atmosphere.	YES   NO
A military fighter could catch up to the orbital station.	YES   NO

## 3 • Bonus questions from the film

What gas did Elon and Eight use to fill the balloons to catch up to the space station?

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What does an aircraft need to fly and a human need to breathe?

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What is the name of the physical principle (law) used by rockets?

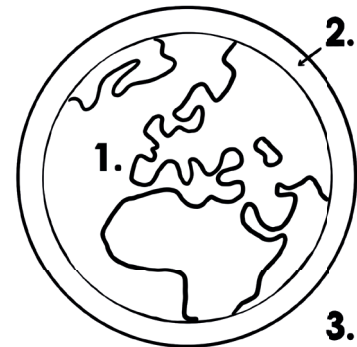
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## 4 • Match the correct names to the picture

ATMOSPHERE

PLANET

OUTER SPACE

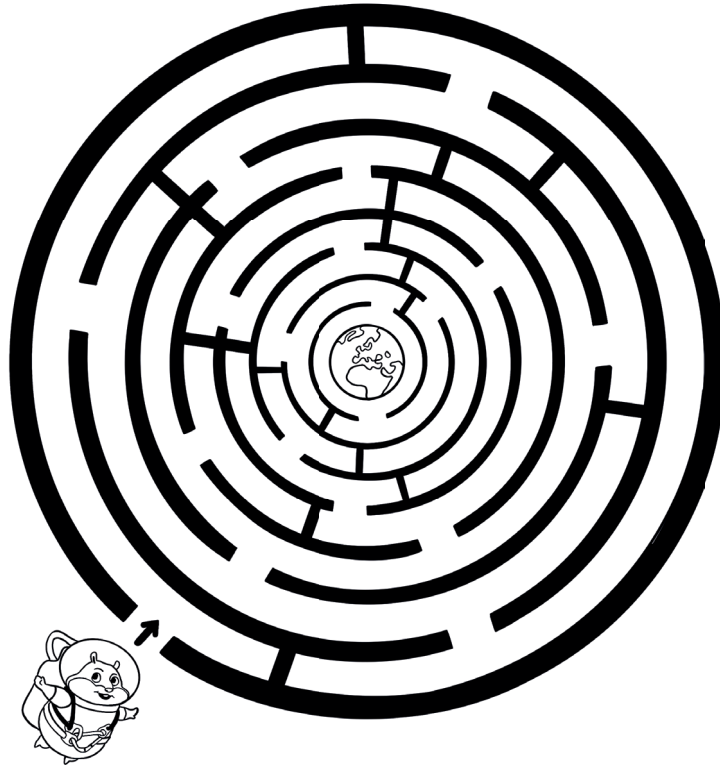


## 5 • Choose the correct option to make the story correct

The astronaut sits in the seat at the **top / bottom** of the rocket and makes his way to the orbiter with the engines roaring. The rocket **slows / accelerates** the entire time the engines are running and the astronaut feels the force pushing him/her into the seat. Once the fuel in the rocket's tank is depleted, the entire tank **disconnects and falls to the ground / shoots away into space**. When the rocket reaches the required speed and altitude, the remaining engines shut down and the astronaut experiences **weightlessness / overload**. The place where the astronaut capsule orbits the Earth is called **orbit / deep space**. To get back to Earth, the astronaut and the rocket must **slow down / speed up**. On re-entry into the atmosphere, the outer part of the capsule begins to **freeze / burn**. This is caused by friction with the **atmosphere / cold** in space. For a smooth landing, the astronauts must open the **parachute / airbag** before impact.

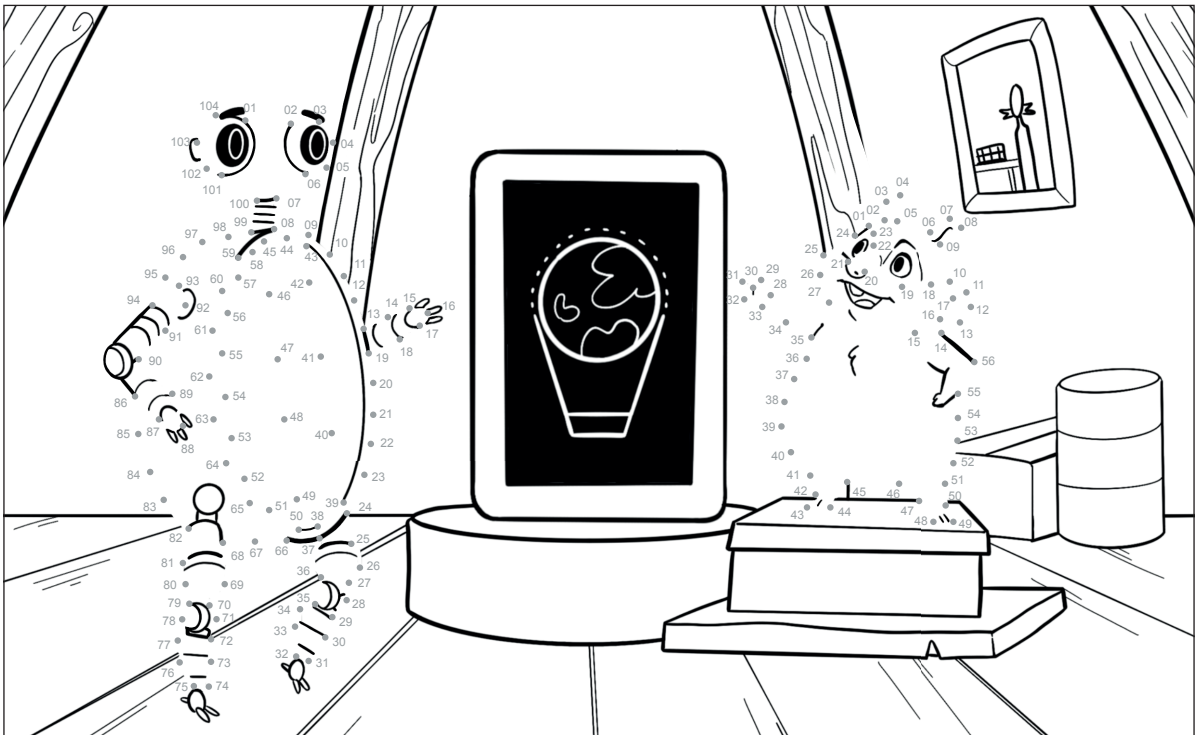
CORRECT ANSWERS: Task 2: 1 - no, 2 - no, 3 - yes, 4 - yes, 5 - no. Task 3: Helium, air, law of action and reaction. One point for each (max 5). Task 4: 1 - planet, 2 - atmosphere, 3 - outer space. One point for each (max 3). Task 5: top, accelerate, disconnects and falls to the ground, weightlessness, orbit, slow down, burn, atmosphere, parachute. One point for each (max 9).

**6 · Find a way for Elon to return to Earth as quickly as possible.**



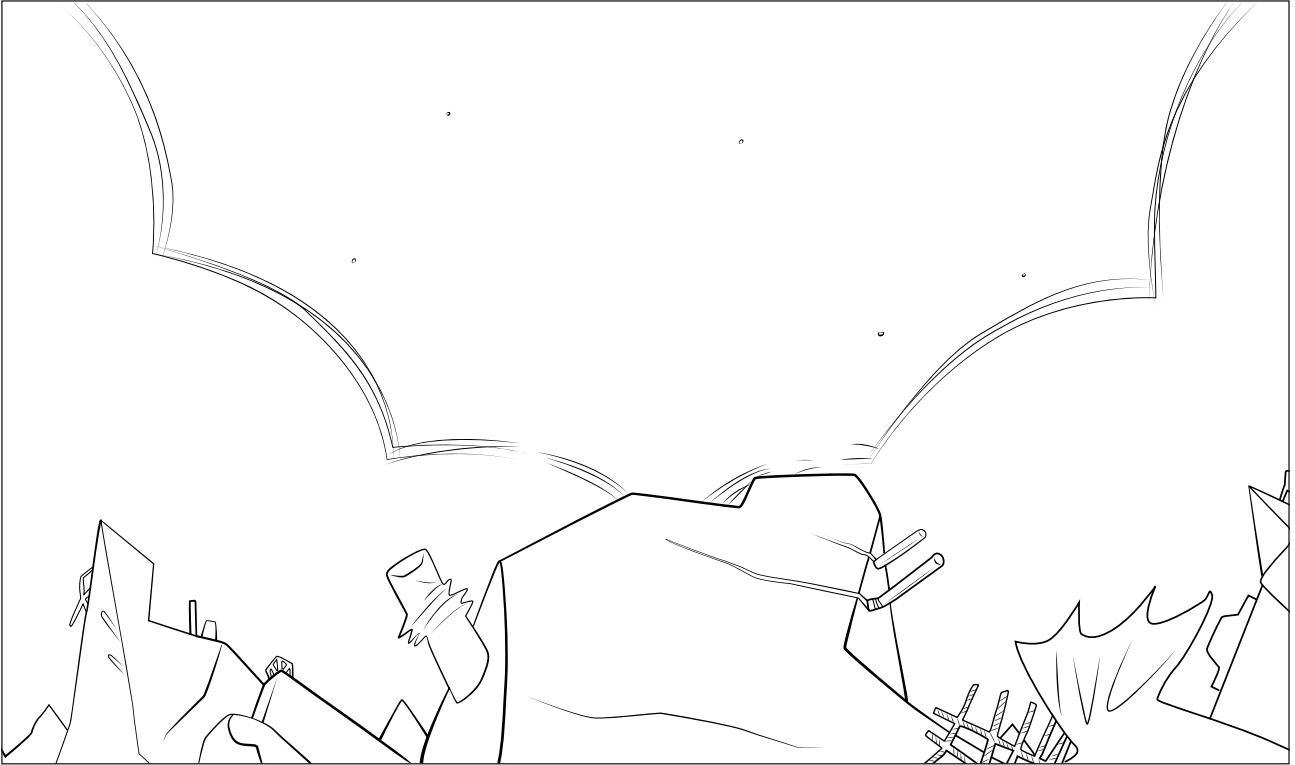
*There is one point for the correct way (max 1).*

**7 · Connect the numbers and try to complete the picture of the robot and the hamster**



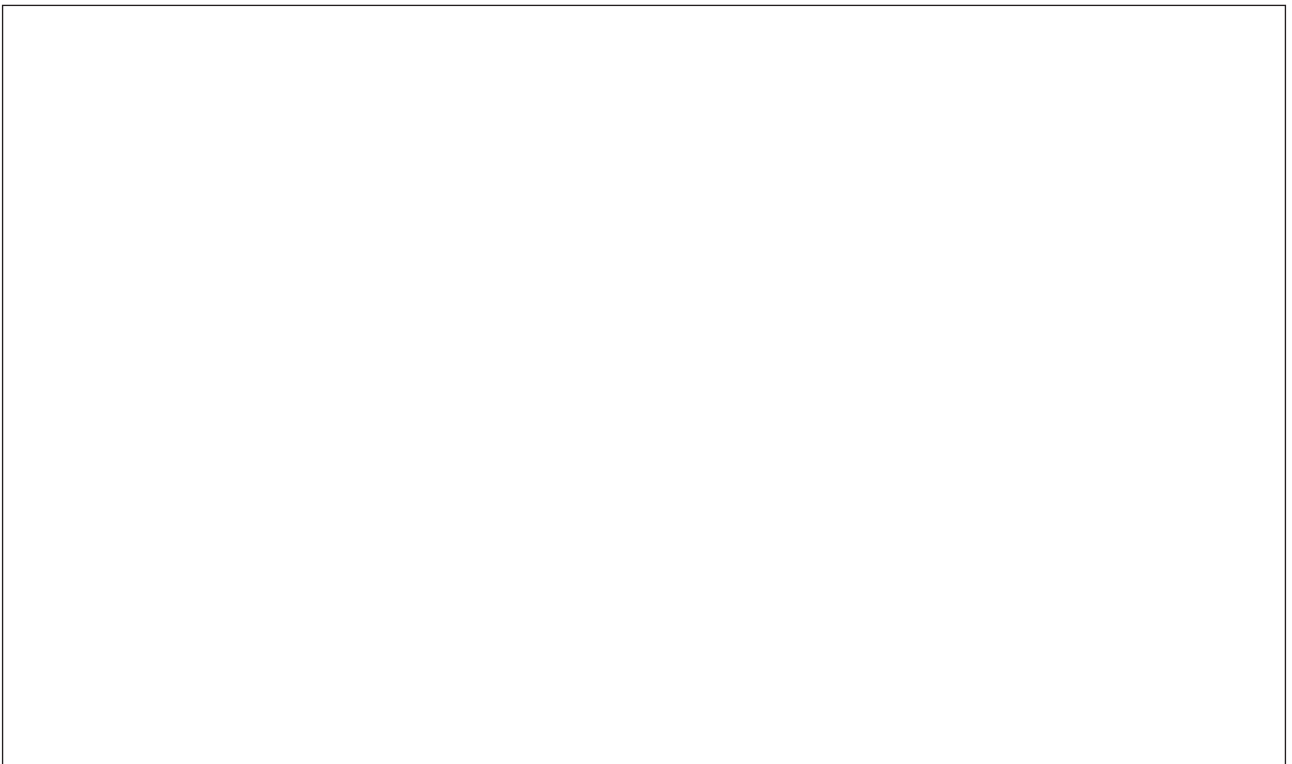
*If you have connected all the numbers, add one point (max 1).*

**8 · Try to redraw the robot and the hamster**



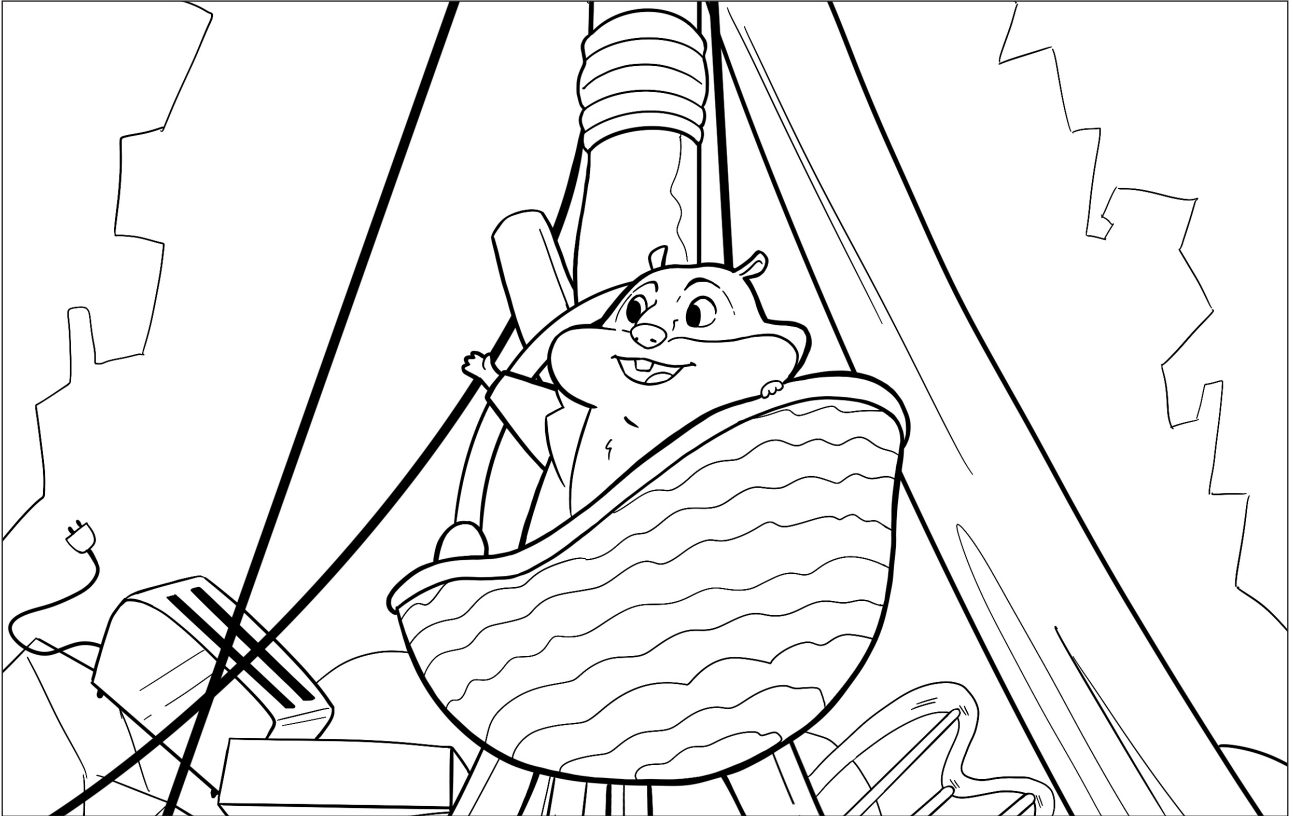
If you like your picture, add one point (max 1).

**9 · Draw your own rocket**



If you like your rocket, add one point (max 1).

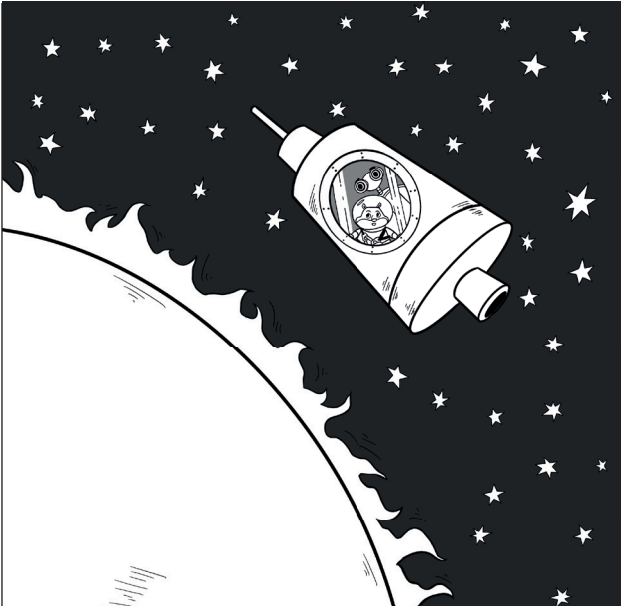
**10 · Colour the pictures**



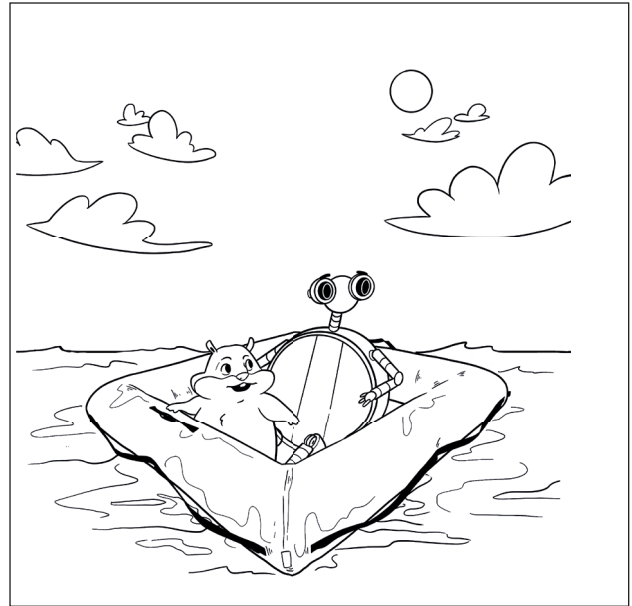
Colouring is a nice job, add one point for each picture (max 2).

## How did your mission go?

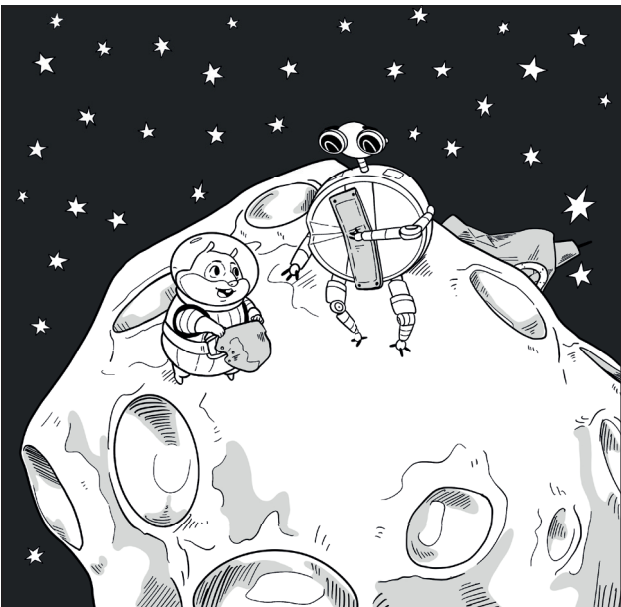
Elon and Eight...



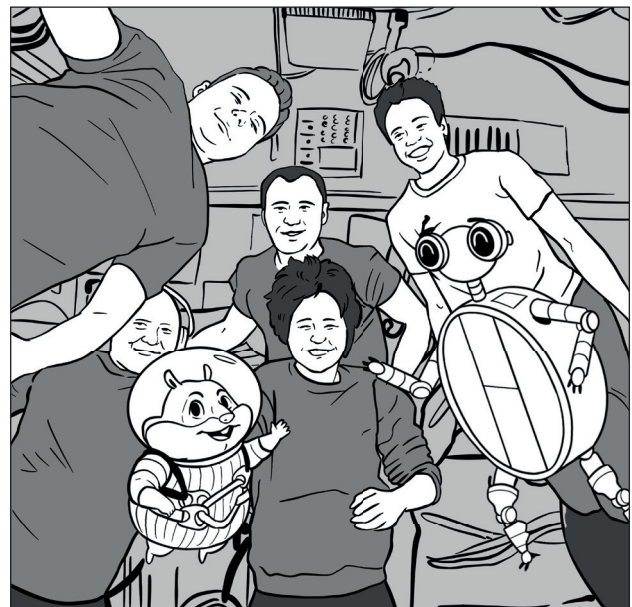
**0-7 p.** ...they had too much speed and broke out of the Earth's gravitational field. Now they're orbiting the sun spontaneously and sending out an SOS.



**8-13 p.** ...they didn't have enough velocity in the right direction to get a foothold in orbit. They fell back to Earth and are floating in the ocean on a lifeboat.



**14-20 p.** ...they headed in the wrong direction and crash-landed on a meteor. They are building a habitat from the wreckage of the ship and are trying to figure out how to get to the ISS.



**21-30 p.** ...have made it safely to the ISS and are taking pictures with the rest of the crew.