



Age 6–12

Hands-on space: Mission on the Moon

- Together with your child, become a space scientist for a day. Lift off from home to explore the Moon and learn about space!
- This activity will introduce your child to logical thinking by planning, testing and executing a simple mission on the Moon. Your child will play the role of “mission controller” and “rover”. A set route will be followed in order to avoid obstacles, carry out the mission, and arrive safely at the final destination.

What you need:

- Computer with Internet connection;
- Printed worksheets, which describe the following activities and which you will find on the ESA (European Space Agency) [website](#).

What to do:

Activity 1: Mission Planning (p. 7)

- In this activity the task is to provide instructions for a rover to navigate across the lunar surface to complete a mission.



Activity 2: Design and test your mission (p. 8)

- Plan a mission on the Moon which will include completing various objectives while navigating unknown terrain before arriving safely at a final destination. Take turns playing the roles of “mission controller” and “rover” in a human-sized lunar surface grid.

Some more ideas:

For motivation and learning, further resources offered by ESA can be used:

- [The Moon Camp Challenge](#)
- [Video about tele-operating robots](#)

- [Video about how rovers could move on the Moon](#)