



ESA TEACH WITH SPACE ONLINE CONFERENCE 2022

5 JULY 2022

| Time | Type of session | Title | Level | Curricular subjects |
|-------------|--|---|---------------------|---|
| 10:00-10:40 | Welcome session | | | Introduction to ESA and its education programme Speaker: Hugo Marée, ESA Education |
| 10:40-10:55 | Social activity | Networking carousel | | |
| 10:55-11:10 | Experiment of the day 1 | Fold your Webb Telescope Mirror | Primary & secondary | Arts, Astronomy and Mathematics |
| 11:15-11:45 | Plenary 1 - ESA Expert key-note | | | Once explorers always explorers: Moon Mars and beyond Speaker: Angelique Van Ombergen, ESA |
| 11:55-12:30 | Splinter session 1 - classroom activities | Climate from space in the classroom - primary | Primary | Science, Physics, Chemistry and Geography |
| | Splinter session 2 - classroom activities | Explore Physics and Chemistry on the Moon | Secondary | Astronomy, Science, Physics and Chemistry |
| 12:30-14:00 | Meet the ESEROs and the ESA Education activities | | | |
| 14:00-14:30 | Plenary 2 - ESA Expert key-note | | | From a smart city to a space city Speaker: Kavitha Muthu, ESA |
| 14:40-15:15 | Splinter session 3 - classroom activities | Food in space | Primary | Science and Biology |
| | Splinter session 4 - classroom activities | All eyes on Earth: a virtual escape room activity | Secondary | Science, Geography and Mathematics |
| 15:25-16:00 | Splinter session 5 - classroom activities | Is there life out there? | Primary | Programming, Robotics and Mathematics |
| | Splinter session 6 - classroom activities | EO Browser - Do it Yourself Earth Observation | Secondary | Mathematics, Geography, Physics, Biology |
| 16:15-17:00 | Plenary 3 | | | Virtual tour of ESTEC facilities |
| 17:00-17:15 | Closing session | Coming up next... Q&A with ESA Education team | | |

6 JULY 2022

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|-------------|--|---|---------------------|---|
| 10:00-10:10 | Welcome | | | |
| 10:10-10:55 | Splinter session 7 - classroom activities | Exploring Mars using artificial intelligence | Primary & secondary | Mathematics and Programming |
| | Splinter session 8 - classroom activities | Exoplanets in the classroom | Primary & secondary | Astronomy, Science, Physics and Chemistry |
| 11:05-11:20 | Experiment of the day 2 | Yoga in Space | Primary & secondary | Biology and Health |
| 11:30-12:30 | Plenary 4 - ESA Expert key-note | | | The Earth from above: an astronaut's view Speaker: Frank De Winne, ESA astronaut / Head of ESA's European Astronaut Centre |
| 12:30-14:00 | Meet the ESEROs and the ESA Education activities | | | |
| 14:00-14:30 | Plenary 5 - ESA Expert key-note | | | Webb: a mindblowing mission to the early universe Speaker: Nora Luetzendorf, ESA |
| 14:40-15:15 | Splinter session 9 - classroom activities | Science of space movies | Primary & secondary | Science, Physics and Chemistry |
| | Splinter session 10 - classroom activities | Monitoring air quality from your classroom | Secondary | Mathematics, Geography, Physics and Biology |
| 15:25-16:00 | Splinter session 11 - classroom activities | Mapping your classroom and beyond | Primary | Science, Geography and Mathematics |
| | Splinter session 12 - classroom activities | 3D Design your sustainable Moon base with Tinkercad | Primary & secondary | Programming, Arts, Design and Mathematics |
| 16:15-17:00 | Panel Discussion 1 | | | Future space jobs in a changing world |
| 17:00-17:15 | Closing session | Coming up next... Q&A with ESA Education team | | |
| 17:15-18:00 | Social activity | Trivia & Space Drinks | | |

7 JULY 2022

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|-------------|--|--|---------------------|---|
| 10:00-10:10 | Welcome | | | |
| 10:10-10:40 | Plenary 6 - ESA Expert key-note | | | Lessons in Planetary Defence: deflecting asteroids Speaker: Hannah Goldberg, ESA |
| 10:50-11:05 | Experiment of the day 3 | Launch your rocket | Primary & secondary | Physics and Chemistry |
| 11:10-11:30 | Splinter session 13 - classroom activities | Teach with Space - a journey through the ESA Education primary level resources | Primary | |
| | Splinter session 14 - classroom activities | Teach with Space - a journey through the ESA Education secondary level resources | Secondary | |
| 11:40-12:30 | Plenary 7 | | | Share your projects |
| 12:30-14:00 | Meet the ESEROs and the ESA Education activities | | | |
| 14:00-14:30 | Plenary 8 - ESA Expert key-note | | | Keeping space clean Speaker: Tiago Soares, ESA |
| 14:40-15:15 | Splinter session 15 - classroom activities | Cleaning up space debris | Primary | Science, Arts |
| | Splinter session 16 - classroom activities | Climate from space in the classroom - secondary | Secondary | Science, Physics, Chemistry and Geography |
| 15:25-16:00 | Splinter session 17 - classroom activities | Running experiments on the ISS using Astro Pi | Primary & secondary | Programming and Physics |
| | Splinter session 18 - classroom activities | Tinkercad Circuits: How to simulate a satellite | Secondary | Programming and Mathematics |
| 16:15-17:00 | Panel Discussion 2 | | | Inclusiveness in Formal Education |
| 17:00-17:30 | Closing session | ESA Teach with Space Online Conference wrap-up | | |