

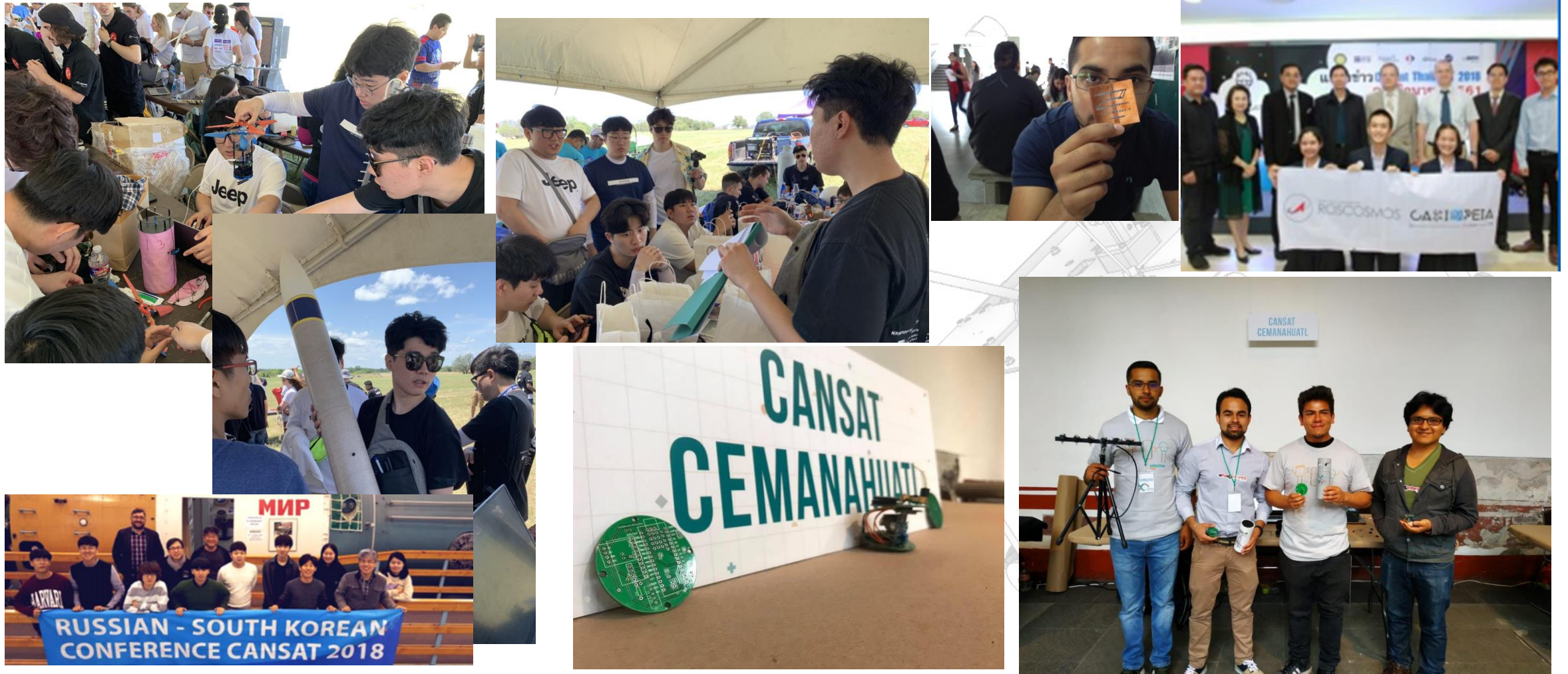
COLLABORATING ON SPACE ACTIVITIES DURING THE COVID-19 PANDEMIC

PRESENTER DR VEDENKIN

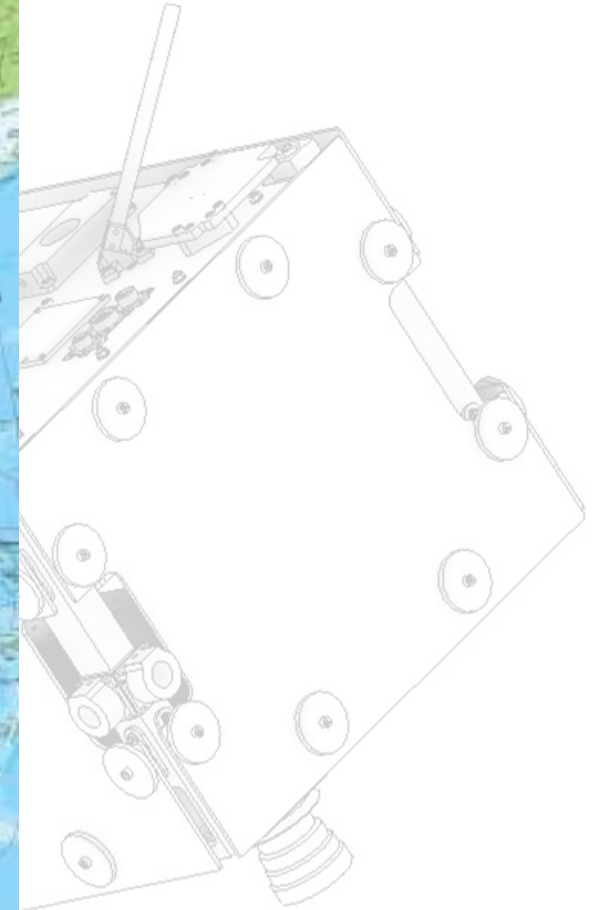
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PRE-PANDEMIC WORLD



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POST-PANDEMIC WORLD

NASA at Home -- For Kids and Families

Learn More

Your flight with Learn NASA Space Crafts Activities on Astroart.

General or Multiple Topics

NASA STEM at Home for Students – Find **crafting ideas, science experiments with household items and videos to watch** on a family.

Grade 1-2 Science (K-2) (grades 1-2)

NASA Science at Home – From formal lesson plans to amazing imagery and stories about **new science and exploration on the way** in space. There will also be ongoing opportunities to **chat and interact with scientists directly**.

NASA Space Place – **VIDEOS, ACTIVITIES, GAMES AND MORE** for kids.

Learning Space with NASA at Home – activities for **learning of grade levels**.

Coloring Books – **Activities and coloring pages** on a wide variety of NASA topics.

Life as It Is – Behind-the-scenes videos of scientists and technologists being supported at NASA's Langley Research Center in Hampton, Virginia, that will contribute to **space exploration, investigations and satellite NASA projects or research areas**.

Classroom NASA app – The NASA app offers **news and multimedia** from around the agency, other opportunities from individual NASA projects or research areas.

Viewlength – a broad collection of materials about **NASA science missions and their impacts**.

Activities and Programs by Grade Level

Grade 1-2 Science (K-2) (grades 1-2) – Create a video game that lets players explore the Red Planet with a helicopter like the one going to Mars with NASA's Perseverance rover.

Grade 3-5 Science (3-5) (grades 3-5) – Download a **high-resolution image of the Moon** for any day in 2020.

Grade 6-8 Science (6-8) (grades 6-8) – Explore activities, videos and activities that explore the various NASA activities.

Exploration Coloring Pages – Use your imagination to explore planets beyond our solar system.

Exploration Travel Bureau – Take a trip **outside our solar system**.

EyeQuest – Travelers deep space in search of **strange and unusual planets that lurk beyond our solar system** – called exoplanets. Answer your family and friends with the knowledge you will gain and the excitement that you will receive.

Eyes on Exploration – There are billions of planets in our galaxy, many in Earth's size range. Explore their **strange, new worlds**.

Five Ways to Find an Exoplanet – How do scientists find planets beyond our solar system?

Galaxy of Horrors – A planet where it's raining glass? Terrifying. Explore it and other bizarre worlds.

Hubble Space Telescope – Colorful activities to learn about the universe, the amazing images Hubble has taken, and the fascinating history of the telescope.

Interactive Resources for Learning – Resources for learners that span the **Hubble Space Telescope mission**. From its beginning to the incredible science it is collecting today.

Jane's Hubble Space Telescope Informal Education – Activities and programs to learn about NASA's **great space observatory**.

Learn Science – **Educational activities** related to NASA's scientific research for a variety of age groups.

Life and Death of a Planetary System – How did our solar system form and planets came into being? **What happens during a star's life**, and what will our solar system look like when it's over? Come along on this incredible journey through time and scientific discovery.

Neptune's Multiscale Mission – Make a paper model of NASA's mission to study how the **Earth and Sun transfer energy to one another**.

Make a Paper Helicopter – NASA's Perseverance Mars rover, launching in July 2020, will carry the first helicopter to the surface of Mars. **Make a paper model of it**.

Make the Most of Your Universe – activities to **learn about the universe** from the team at NASA's Chandra X-ray Observatory.

Moon Observation Journal – A journal you can use to track the **phases of the Moon**.

NASA Universe of Learning at Home – activities for all ages to engage in the science of NASA's atmospheric and aeronomy from home.

Planet Solar Probe – Hands-on activities to learn about the **Sun**.

Plan and Share – **Plan and photograph** to document and share from NASA's Lunar Reconnaissance Orbiter.

Space Travel Hubble Game – Can you travel through space safely? Learn how **mission in space can affect human health** (ages 11 and up) (requires a printer).

The Sun and the Earth – Lesson plans and other materials on the **relationship between the Sun and the Earth**.

ViewSpace – A web-based collection of digital interactives and hundreds of videos highlighting the latest developments in **aeronomy and Earth science**.

What Did Hubble See on Your Birthday? – In 20 years, the **Hubble Space Telescope has taken pictures on every date on the calendar**. Find it when it was looking at your birthday.

Learn More

Aerospace Quiz – Answer a few questions to learn about **weather – sky conditions suspended in our atmosphere** – and the Planck, Aramis, Cloud, and Exoplanet (PACE) mission.

Climate Interactive Resource – The Global Learning and Observations to Benefit the Environment (GLOBE) Program **allows students and the public worldwide to participate in data collection and the scientific process**, and contribute knowledge to our understanding of the Earth system and global environment. Resources by grade: K-2 (3-5) (4-13).

ESL Tools – activities and materials from NASA's Earth Observatory, allowing how **NASA studies the Earth from space**, from the air and on the ground.

Global Flight/Star Measurement mission education – A variety of educational activities, suitable by type and grade level, on NASA's mission to study Earth's **water cycle, weather and climate**.

ICESat-2 Fun Zone – Videos, activities and interactives about NASA's mission to study Earth's **ice-covered regions**.

Make Your Own PACE Spacecraft – It usually takes years to build a satellite. This **paper model replica of PACE** can be built in five parts plus an optional wing. Just like NASA, you will create the first spacecraft model by assembling the parts together. Join at a key location of the trail.

The Carbon Cycle Game: Travel along the marine carbon cycle and **learn about the ocean**. (Grades 4-10)

"Which Physiological Are You?" Quiz – Answer four questions to discover which of **four diverse organisms** it most like your **Human Space Flyer**.

How to Draw Artemis – **Draw the rocket** that will take the next humans to the Moon.

Imagery Topics at Home – It can be a little challenging staying inside the space station all the time. Astronauts will need to do their everyday thing. Imagine you and your family are astronauts on the space station right now. How would you adapt to the challenges and still keep doing important activities. Be exercising, working and studying for school?

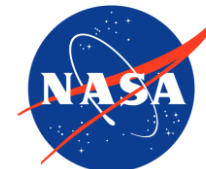
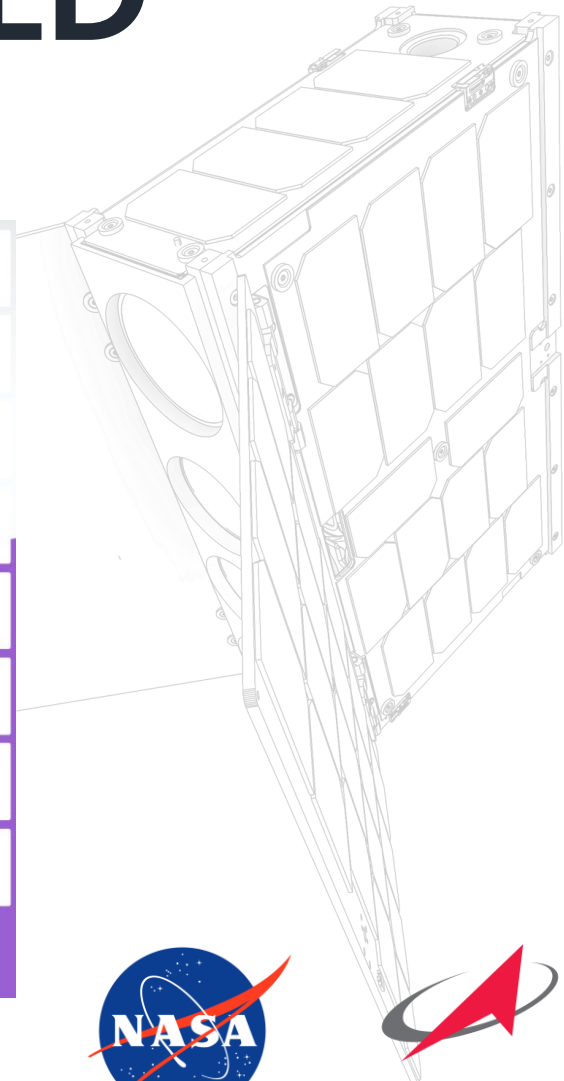
Space Learning System activities – **games, coloring sheets and activities** featuring the Space Learning System, the rocket NASA is building to take the first woman and next man to the Moon in 2024.

Space Communications and Navigation – activities to learn about how **NASA communicates with spacecraft** and helps them navigate through space.

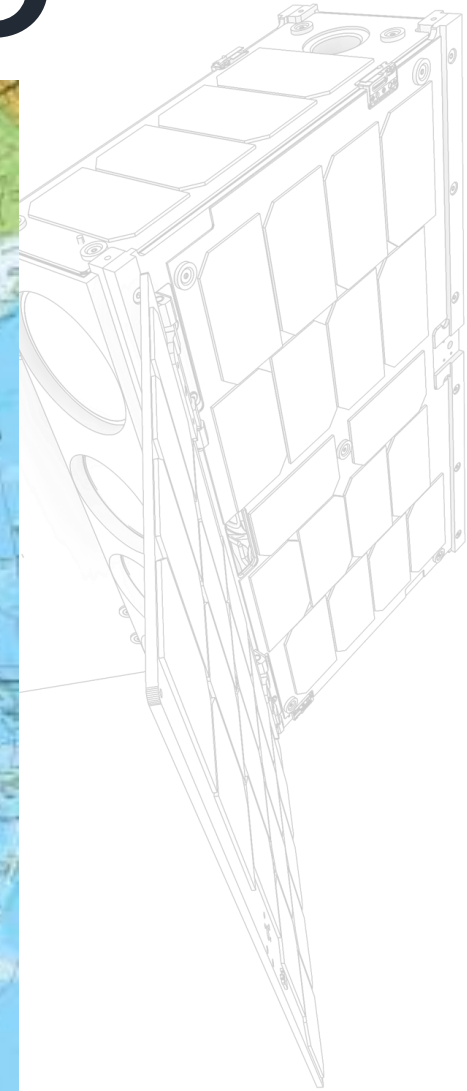
Space Technology

NASA SOLVE – interested in helping NASA solve tough problems? Use **KNOW SOLVE**, where you'll find opportunities to participate in challenges, give comments, brainstorming, and discuss science activities!

Space Tech Activities for Junior Engineers – explore what **NASA and our nation's parts have to continue** and how space technology benefits your life, jobs and the planet.

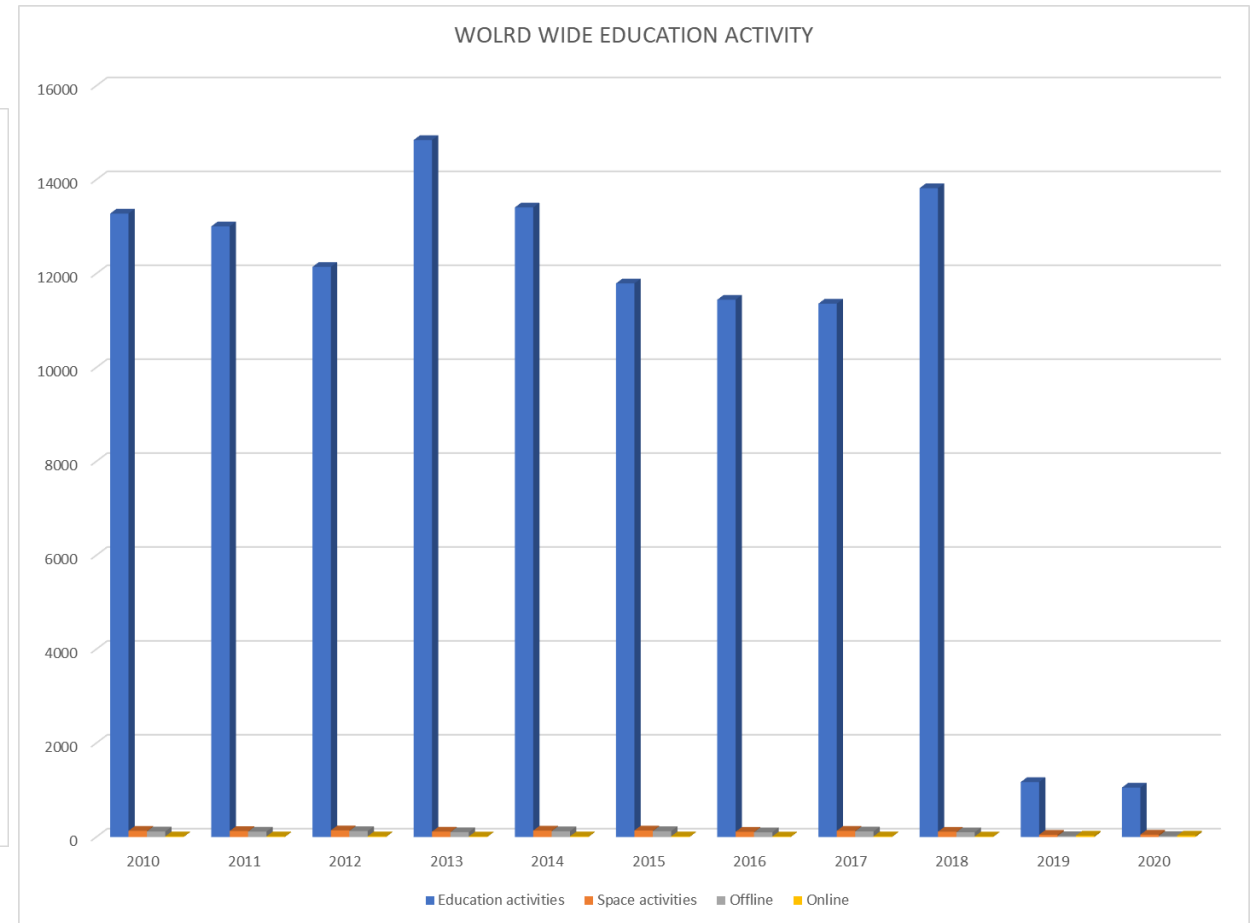
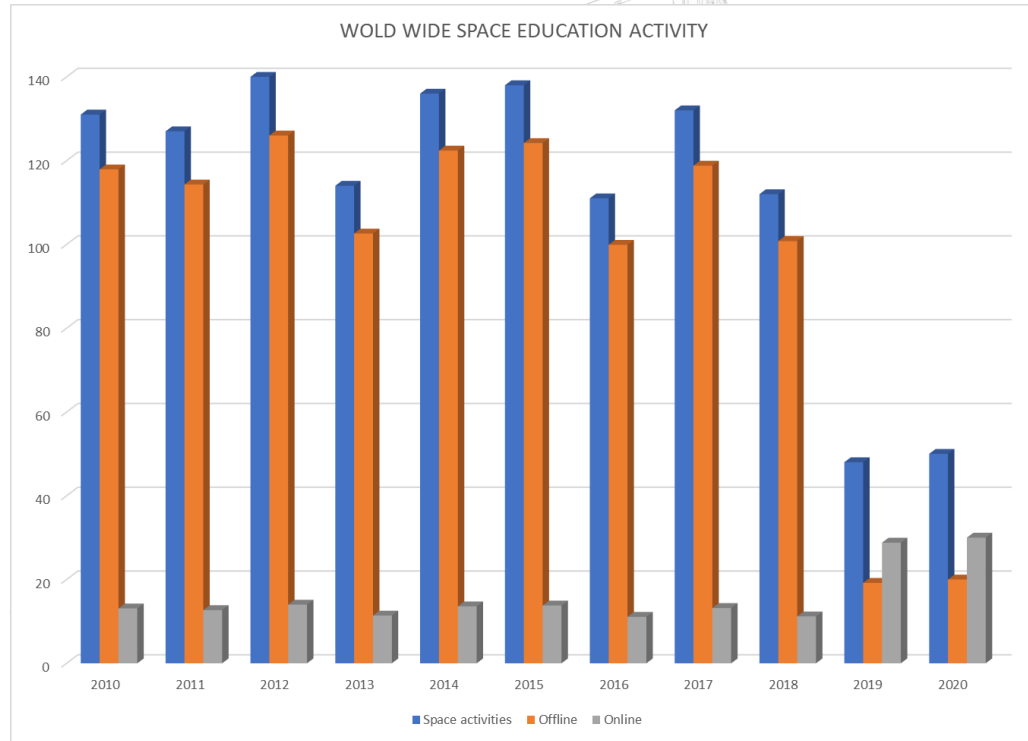


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THINKING



THINKING

Level 1

Subject tasks

- 1) Mathematics
- 2) Physics
- 3) Biology
- 4) Chemistry
- 5) Geography
- 6) ...

Level 2

Multi-subjects tasks

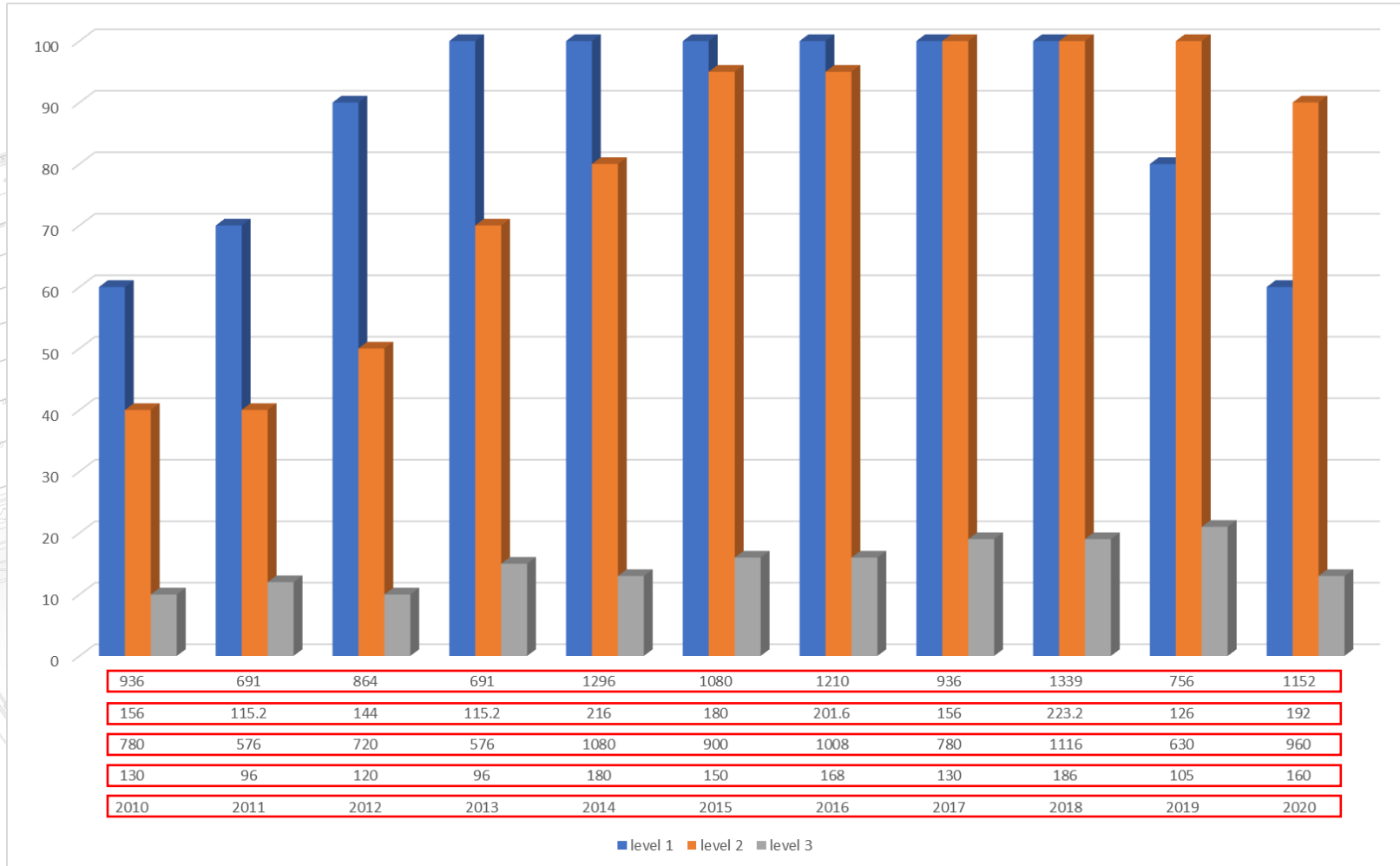
- 1) Mathematics + Physics
- 2) Biology + Mathematics
- 3) Chemistry + Physics
- 4) Geography + Biology
- 5) ...

Level 3

Multi-subjects tasks + experiment

- 1) Mathematics + Physics + Tests
- 2) Biology + Mathematics + Test
- 3) Chemistry + Physics + Test
- 4) Geography + Biology + Test
- 5) ...

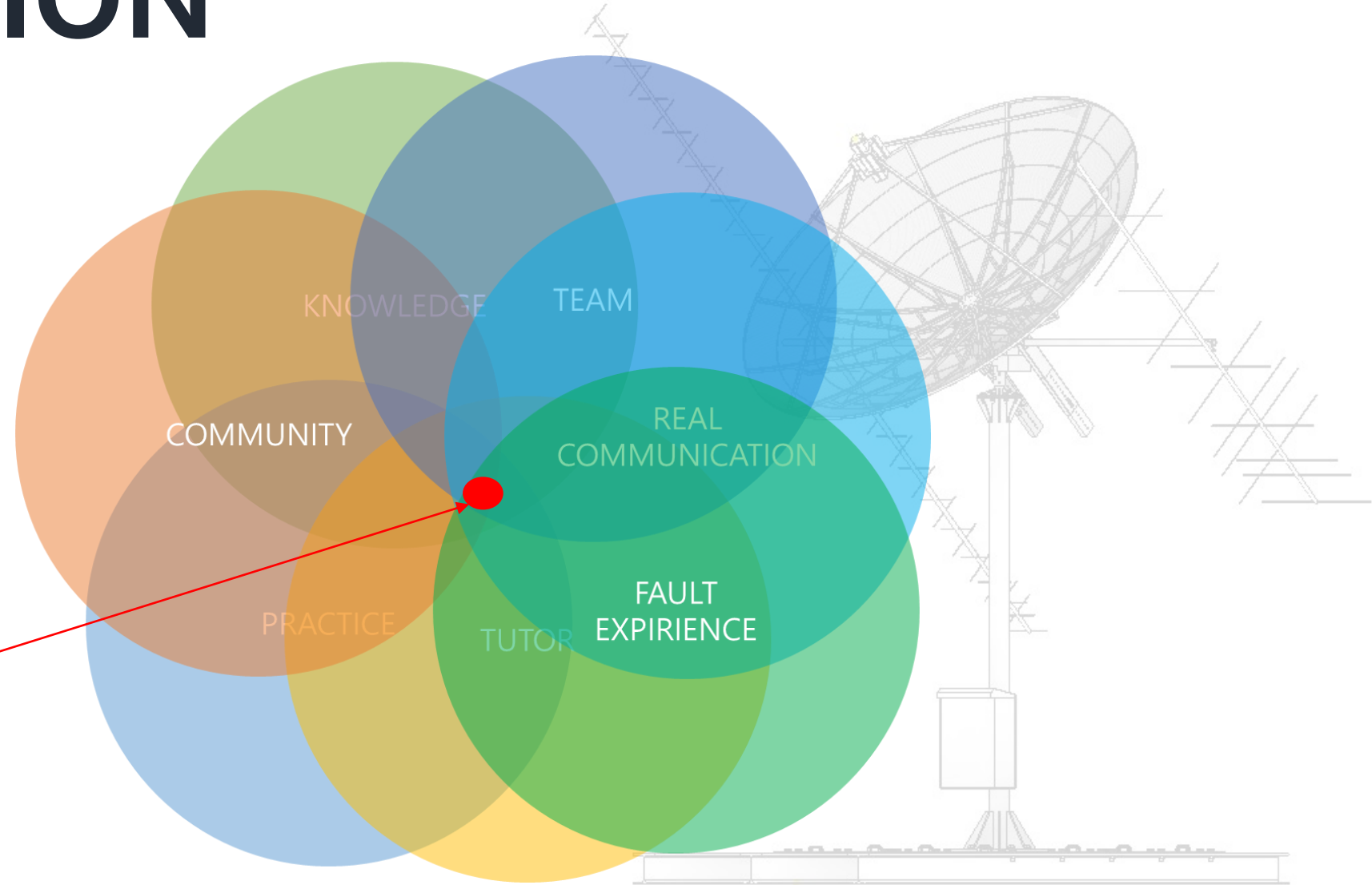
THINKING



Full team members
Support team members
Active team members
Exact team members

CONCLUSION

- 1) *KNOWLEDGE*
 - 2) *TUTOR*
 - 3) *COMMUNITY*
 - 4) *PRACTICE*
 - 5) *FAULT EXPERIENCE*
 - 6) *REAL COMMUNICATION*
 - 7) *REAL COMMUNICATION*
- =
- AEROSPACE ENGINEER**



THANK YOU FOR ATTENTION

