



ASEF Classroom Network #ASEFClassNet School Collaboration 2019

Proposal

1. Title of the Online Collaboration (Max. 6 words)

Space Exploration Buddies

2. Name and contact details of project co-ordinator(s)

Ms May Ling ONN
Science Teacher
Sri KDU Secondary School
Malaysia
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3. School description (Max. 30 words)

Sri KDU Secondary Private School is located in Selangor state, Malaysia. It has a total of 1246 learners that are taught using the International Curriculum (CIE) alongside the National Curriculum.

4. Summary of the Proposed Online Collaboration (Max. 200 words)

'Once you've been in space, you appreciate how small and fragile the Earth is.', said Valentina Tereshkova. Space exploration is important not only to satisfy humanity's curiosity of the great beyond, but also for the future of the Earth. By 2050, the world's population will reach 9.1 billion, as reported by the Food and Agricultural Organization. The United Nations is working with European Space Agency on space solutions such as Galileo system or Earth Observation technologies to achieve the Sustainable Development Goals.

However, space science is lacking in education, and only a small proportion of students seems interested in STEM. What can we do better as schools to prepare our students to think beyond the Earth? This project encourages students and teachers across Asia and Europe to create a "space network" on the space technologies and developments. Students will carry out research and conduct interviews to understand the challenges of communicating about space exploration and find out ways to expand this knowledge to their peers. Students will create awareness by creating videos of their findings and share them on online platforms. This project also aims to link multiple disciplines in the space science education by gathering participants from various backgrounds.

**5. The Online Collaboration falls under the main themes of:
Please state "1" to "3" in level of relevance**

<input type="checkbox"/> Arts & Culture	<input type="checkbox"/> Health
<input type="checkbox"/> Business & Entrepreneurship	<input type="checkbox"/> History
<input checked="" type="checkbox"/> 2 Education	<input type="checkbox"/> Media
<input checked="" type="checkbox"/> 3 Environment & Sustainable Development	<input checked="" type="checkbox"/> 1 Science & Technology
<input type="checkbox"/> Others. Please specify below:	

6. Duration of the Online Collaboration (Please state start and end date):

Start Date	:	1 February 2019
End Date	:	30 July 2019
Duration	:	6 months

7. Expected no. of schools/students involved and level of language and ICT skills

No. of Schools in total	:	8 - 10
No. of Students in total	:	60
Students Age Group	:	13 - 17
Level of English	:	Intermediate
Level of ICT Skills	:	Intermediate

**8. ICT tools/software required
Please tick (✓) as appropriate)**

<u>Word processing software</u>	<u>Video conference tools</u>	<u>Storage tools</u>
<input type="checkbox"/> Adobe Acrobat Reader	<input checked="" type="checkbox"/> Skype	<input type="checkbox"/> Dropbox
<input type="checkbox"/> Google Docs/Sheets	<input type="checkbox"/> Viber	<input checked="" type="checkbox"/> Google Drive
<input type="checkbox"/> Microsoft Word/Excel	<input type="checkbox"/> Vyew	<input type="checkbox"/> iCloud
<input type="checkbox"/> Scribd	<input type="checkbox"/> Wechat	
<input type="checkbox"/> Wordpress		

Social media

- Ask.fm
- Facebook
- Flickr
- Instagram
- Pinterest
- Tumblr
- Twitter
- Weibo

Image editing software

- Adobe Illustrator
- Adobe Lightroom
- Adobe Photoshop
- BeFunky (online)
- Sketch (Mac only)

Online collaboration

- Mindmeister
- Slack
- Telegram
- Trello
- Padlet
- Microsoft Teams

Video/audio editing software

- Adobe Premiere
- Audacity
- Garageband (Mac only)
- Soundcloud
- Windows Movie Maker
- Youtube

Presentation

- Google slides
- Microsoft Powerpoint
- Prezi

App development

- Adobe Flash builder
- Alpha Software
- Appy Pie

Others (please specify):

- Google Forms / Survey Monkey
- Cute Cut Video Editor
- PowToon Video Maker
- Microsoft Paint
- Google Classroom
- Flipgrid

9. Other resources needed:

(Please tick (✓) as appropriate)

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> Camera | <input type="checkbox"/> E-reader | <input type="checkbox"/> OHP |
| <input checked="" type="checkbox"/> Desktop Computer/Laptop | <input type="checkbox"/> GoPro | <input checked="" type="checkbox"/> Smart Phones |
| <input type="checkbox"/> Digital Projector | <input type="checkbox"/> Interactive Whiteboard | <input checked="" type="checkbox"/> Tablet |
| <input type="checkbox"/> Voice Recording Devices | <input type="checkbox"/> NA | |

Others (please specify):

10. Learning objectives and outcomes for teachers and students

(Please list at least 3 learning objectives and outcomes for teachers and students respectively.)

Learning Objectives	Outcomes
Teachers should join to:	For Teachers:
1. Build a supportive network for teachers and students across Asia and Europe to engage in a cooperative and collaborative learning	1. Information exchange and sharing among a community with diverse and intercultural background
2. Facilitate discussion and learning among students across Asia and Europe on the progress of their research on the challenges of communicating about Space Exploration.	2. Teachers will be able to create an environment in which learning is beyond the textbooks and classroom
3. Encourage and prepare students with 21 st century skills for the future with a focus in creativity, critical thinking, communication and collaboration	3. Teachers will develop and apply ICT skills and tools in lessons and network with other teachers and students.
Students will learn to:	For Students:
1. Cooperate and collaborate with people from diverse background and cultivate understanding of different cultures	1. Students will be more competent in their communication skills and have an increased understanding of other cultures to work effectively as a team
2. Enhance their knowledge through critical thinking, creativity and problem solving	2. Students will cultivate interest in Space Exploration and development discoveries
3. Enhance and develop their ICT capabilities by applying them through creating videos, survey forms, Skype interviews and others.	3. Students will be more competent in managing ICT tools which will boost their engagement in learning

11. Timeline and activities of the Online Collaboration

	<u>Main Coordinator</u>	<u>Teachers</u>	<u>Students</u>
Phase 1 (Feb 2019)			
▪ Set-up a grid under Flipgrid and invite members to the group by sharing the Flipcode	✓		
▪ Self-introduction using video by all participating members in Flipgrid		✓	✓
▪ Form a team by matching the group works between Asian and European Schools	✓		
Phase 2 (March to April 2019)			
▪ Research for information about the space developments in their respective countries			✓
▪ Visit national space centers (Eg. <i>National Planetarium</i>) or museums to take photos and collect information about space developments of their respective countries			✓
▪ Create survey form to obtain feedback and gauge the knowledge level of the public about the space development in their respective countries		✓	✓

<ul style="list-style-type: none"> Conduct Skype session or interview Space Exploration Experts on the challenges faced with communicating about the topic of Space Science to the public 		✓	✓
Phase 3 (May to June 2019)			
<ul style="list-style-type: none"> Create a short video/poster/animation that compiles the information, photos, survey outcome and interviews to summarize the project and upload on YouTube, Facebook and Flipgrid of the group 		✓	✓
<ul style="list-style-type: none"> Showcase of the research in respective countries through social media and exhibitions/sharing session 	✓	✓	✓
Phase 4 (End July 2019)			
<ul style="list-style-type: none"> Evaluate the project and give individual feedback using video responses in Flipgrid 	✓	✓	✓
<ul style="list-style-type: none"> Summarize and compile feedback on what went well (WWW) and even better if (EBI) on the project 	✓	✓	

For further details about this online collaboration, please contact the coordinator directly



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