



# ASEF Classroom Network #ASEFClassNet School Collaboration 2019

## Proposal

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

Ecobrick: Beat the Plastics!

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

Mrs Yuni Ifayati  
Teacher  
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### 3. School description (Max. 30 words)

SMPIF Al Fikri lays on the concept of 'Islam fitrah' which means facilitating and treating students based on their own uniqueness. It is an inclusive school that also welcomes the special needs students to learn together with others. Music, art, language, science, and Islam are the core of the curriculum.

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

Plastic water bottles, straws, crisp packets, and bags have become a part of our daily life. But single-use plastic doesn't disappear when we're done using it: most clogs up the ocean and litters the land. It becomes a major environmental problem since most of it is not biodegradable. This project aims to invite students to take action to protect the environment by making ecobricks. Ecobrick is a plastic bottle packed to a set density with used, clean and dry plastic to create a building block that can be used over and over again.

It is stepping stone out of the old paradigm of plastic as 'waste' and 'trash' because it can be used to make modular furniture, garden spaces, walls and even full-scale buildings. Ecobrick, first introduced by Russel Maier (Canadian) and Ani Himawati (Indonesian), is becoming one of the solutions for plastic waste management that everyone can do without machines or special skills. The making follows the following steps; pack bottles with non-biodegradable plastic only (no paper, glass, or metals), use a stick to pack bottle with the plastic as much as possible and put the coloured plastic at the bottom, use one brand per project to make building easier, weigh it to ensure the quality, log the ecobrick to record your data, and start to build! This project allows students and school communities to gain awareness and take personal responsibility for their own use of plastic. It is not just about making ecobricks, but also about setting a movement to save our lovely Earth!

**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 type="checkbox"/> Education	<input type="checkbox"/> Media
<input checked="" type="checkbox"/> Environment & Sustainable Development	<input type="checkbox"/> Science & Technology
<input type="checkbox"/> Others. Please specify below:	

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

Start Date	:	1 January 2019
End Date	:	31 May 2019
Duration	:	5 months

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

No. of Schools in total	:	10
No. of Students in total	:	100
Students Age Group	:	13 - 17
Level of English	:	Basic / Intermediate
Level of ICT Skills	:	Basic / 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 checked="" 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		

<p><u>Social media</u></p> <input type="checkbox"/> Ask.fm <input checked="" type="checkbox"/> Facebook <input type="checkbox"/> Flickr <input type="checkbox"/> Instagram <input type="checkbox"/> Pinterest <input type="checkbox"/> Tumblr <input type="checkbox"/> Twitter <input type="checkbox"/> Weibo	<p><u>Image editing software</u></p> <input type="checkbox"/> Adobe Illustrator <input type="checkbox"/> Adobe Lightroom <input checked="" type="checkbox"/> Adobe Photoshop <input type="checkbox"/> BeFunky (online) <input type="checkbox"/> Sketch (Mac only)	<p><u>Online collaboration</u></p> <input type="checkbox"/> Mindmeister <input type="checkbox"/> Slack <input checked="" type="checkbox"/> Telegram <input type="checkbox"/> Trello <input type="checkbox"/> Padlet <input type="checkbox"/> Microsoft Teams
<p><u>Video/audio editing software</u></p> <input type="checkbox"/> Adobe Premiere <input type="checkbox"/> Audacity <input type="checkbox"/> Garageband (Mac only) <input type="checkbox"/> Soundcloud <input checked="" type="checkbox"/> Windows Movie Maker <input checked="" type="checkbox"/> Youtube	<p><u>Presentation</u></p> <input type="checkbox"/> Google slides <input checked="" type="checkbox"/> Microsoft Powerpoint <input type="checkbox"/> Prezi	<p><u>App development</u></p> <input type="checkbox"/> Adobe Flash builder <input type="checkbox"/> Alpha Software <input type="checkbox"/> Appy Pie
<p><u>Others (please specify):</u></p>		

**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 type="checkbox"/> Tablet
<input checked="" type="checkbox"/> Voice Recording Devices	<input type="checkbox"/> NA	
<p>Others (please specify):</p>		

### 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
<b>Teachers should join to:</b>	<b>For Teachers:</b>
1. Enlarge the collaboration among teachers and schools.	1. A network among AEC teachers.
2. Enrich their professional experiences in handling a project.	2. Valuable experiences and knowledge.
3. Support their students and the school community to learn more on why ecobrick becomes a plastic solution and encourage them to make ecobricks as a long-term life habit.	3. Raising awareness to save the environment.
4. Invite people in the community to be an ecobricker as part of their responsibility with their plastic usage.	4. Community empowerment to go zero waste.
<b>Students will learn to:</b>	<b>For Students:</b>
1. Research the effects of plastic on the environment.	1. A deep understanding about the effects of plastic on the environment.
2. Explore what and why Ecobrick becomes a plastic solution.	2. An understanding about Ecobrick as a zero-waste plastic solution.
3. Be an ecobricker.	3. A good insight of being ecobricker.
4. Invite other people in their community to go zero waste by making ecobrick with them.	4. Good communication skills and creative thinking development.
5. Contribute positively on an online discussion through FB group.	5. Constructive feedbacks on their work/presentation.

### 11. Timeline and activities of the Online Collaboration

Description	Main Coordinator	Teachers	Students
<b>Phase 1 (January 2019)</b>			
▪ Set-up Facebook group and invite members to the group	✓		
▪ Self-introduction by all participating members		✓	✓
▪ Explore about how plastic used in daily life by taking real photographs in their surroundings and where it ends			✓
▪ Research the plastic effects on the environment.			✓

<b>Phase 2 (February to March 2019)</b>			
<ul style="list-style-type: none"> <li>Research and share information about what ecobrick is, the philosophy behind it and why we need to ecobrick</li> </ul>			✓
<ul style="list-style-type: none"> <li>Make the ecobrick tutorial to show students the steps how to ecobrick well until the logging process at <a href="https://www.gobrik.com/">https://www.gobrik.com/</a></li> </ul>	✓		
<ul style="list-style-type: none"> <li>Make the ecobrick by following the steps in the tutorial</li> </ul>		✓	✓
<ul style="list-style-type: none"> <li>After understanding Ecobrick philosophy and how to make it, hold an Ecobrick workshop to invite all students at your own school to ecobrick. Ask them to bring bottles and plastic from home.</li> </ul>		✓	✓
<ul style="list-style-type: none"> <li>If it is possible, hold a workshop in another school or other communities to invite more people to ecobrick</li> </ul>		✓	✓
<ul style="list-style-type: none"> <li>Label, weigh, and log all ecobricks made in the school workshop.</li> </ul>			✓
<b>Phase 3 (April to May 2019)</b>			
<ul style="list-style-type: none"> <li>Show a tutorial to build ecobrick module (Triangle Milstein, Hexagon Milstein, and Dieleman Lego Module)</li> </ul>	✓		
<ul style="list-style-type: none"> <li>Build ecobrick modules and using those modules, create simple furniture like benches, table, and chairs.</li> </ul>		✓	✓
<ul style="list-style-type: none"> <li>Ecobrick Expo (Online and Offline)- Exhibit the ecobricks modules to more communities and invite them to join the Ecobrick Movement.</li> </ul>		✓	✓
<b>Phase 4 (End May 2019)</b>			
<ul style="list-style-type: none"> <li>Feedback and evaluation</li> </ul>	✓	✓	✓

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



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