

16 March 2021

Dear Headmaster/Principal,

RE: INVITATION TO PARTICIPATE IN ASTI FEYNMAN CHALLENGE (AFC) 2021

It is with great pleasure, on behalf of Association of Science, Technology and Innovation (ASTI); we would like to invite students from your school to take part in ASTI Feynman Challenge. ASTI Feynman Challenge is an online challenge where the students are able to work from in the safety of their home as a team of 2 to 5 person. The teams can be made up of parents and children, brothers and sisters, friends and neighbors and so on. AFC requires the team to invent something with a scientific principle that they have learnt in school. The invention should be made with household objects they could easily find at their homes. For example, they can design and build a catapult with clips and rubber bands and use this invention to teach the third law of Newton. The team must then record video of their explanation of this scientific concept with the invention they had built. So in summary, the invention is basically a teaching tool which they use to produce a lesson to explain the scientific principle of their choice.

Each video must be within the duration of 5 minutes long which is uploaded into YouTube. The video can be recorded using their mobile phones. The learning principle or pedagogy is based on the Feynman Technique which can be summarised in 4 simple steps:

The learning principle or pedagogy of AFC is based on the Feynman Technique which can be summarized in 4 steps:

1. Choose a concept you want to learn about
2. Pretend you are teaching it to very young learners
3. Identify gaps in your explanation; go back to the source material, to better understand it
4. Review and simplify.

For AFC, we added step 1.5: invent a teaching tool to explain the concept.

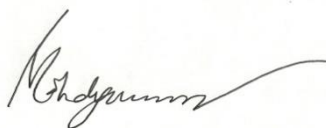
In 2020, we had received 650 registrations from 7 countries, Malaysia, Singapore, India, Thailand, Canada, New Zealand and Tunisia of which 318 teams successfully submitted their videos. Considering its overwhelming response, we would like to continue the same programme this year. For 2021, the teams can be made up of parent and children, brothers and sisters, friends and study buddies. The team does not need to be living together and may communicate via online platforms such as zoom etc.

The guidelines for participation as shown below:

Step 1	Form a Team , minimum of 2 and maximum of 5 people only
Step 2	Email (astifeynman2020@gmail.com) your registration form attached in email by 15 April 2021 or Register through the google form at https://forms.gle/1A8m4qviLJDwki1a6 OR <i>Scan to register</i>
Step 3	Go through our modules at : https://www.asti.org.my/afc2021 Module 1_ How To Do A Video and Work With Your Child In Meaningful Way, Module 2_ What is the Feynman Technique, Module 3_ Teaching Method and Developing a Lesson, Module 4_ Project Management and Planning Module 5_ How to upload video in YouTube and Video Submission Guidelines
Step 4	Record your video and do the necessary edits
Step 5	Submit your video by 20 May 2021
Step 6	Winners Announcement through Facebook Live Event in Mid-July
Step 7	Distribution of Winning Prizes and e-certificates

Please refer to attached ASTI Feynman Challenge 2021 poster for more information or visit <https://www.asti.org.my/afc2021/>. On behalf of ASTI, we are hoping that you could disseminate this information to your teachers, students and we look forward the participation from your school.

Sincerely,



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Dr. Mohamed Yunus Yasin B Eng. (UKM), PhD (Cantab)
President
Association of Science, Technology and Innovation