INTRODUCTION

INTRODUCTION OF ASTI

1. The Association of Science Technology and Innovation (ASTI) is an association of educators, scientists, industry representatives and individuals who are committed to advancing the role of the scientific community in inspiring the youth of the nation to join and excel in the world of science.

2. ASTI also tries to use Science, Technology and Innovation for the advancement of mankind and protection of the environment that nourishes us all. ASTI also believes that STI are part of the wider realm of knowledge such as art, history, languages and others.

3. ASTI was set up by the founders of Science Fair for Young Children (SFYC) on the 25 October 2012

ACHIEVEMENTS OF SFYC

Number of Schools Participated in Zone Level Science Fair since 2008

Zone	State	Number of Participating Schools	
		2008	2009
1	Kedah & Perlis	28	28
2	Penang		
3	Perak	18	15
4	Selangor	58	74
5	Kuala Lumpur		
6	Negeri Sembilan	4	3
7	Melaka		
8	Johor	57	54
9	Pahang & Kelantan	15	14
	TOTAL	**180**	**188**

Zone	State	Number of Participating Schools											
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1	Kedah & Perlis	17	41	34	52	49	38	47	40		34	32	36
2	Penang	16	16	19	15	18	20	14	22		20	21	22
3	Perak	50	47	53	56	48	38	38	59		45	62	72
4	Selangor	54	56	35	47	9	25	31	44		34	34	43
5	Kuala Lumpur	14	13	10	10	19	9	12	13		14	14	14
6	Negeri Sembilan	18	18	30	30	34	22	30	46		43	50	41
7	Melaka	21	21	21	21	10	4	19	21		20	21	17
8	Johor	59	45	52	41	49	45	38	57		41	41	45
9	Pahang & Kelantan	14	17	15	19	25	20	29	24		20	18	22
	TOTAL	**263**	**274**	**269**	**282**	**261**	**221**	**258**	**326**	**-**	**271**	**293**	**312**

ACHIEVEMENTS OF SFYC

Number of Schools Participated in School Level Science Fair since 2010

Zone	State	Number of Schools											
		2010	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**
1	Kedah & Perlis	-	46	43	56	32	45	55	40	28	30	14	37
2	Penang	-	-	14	20	26	28	22	24	19	12	10	21
3	Perak	-	45	73	93	80	50	40	45	46	42	17	67
4 & 5	Selangor & Wilayah Persekutuan	11	36	59	87	80	50	40	30	45	41	25	51
6	Negeri Sembilan	-	20	46	42	40	55	35	45	47	47	26	42
7	Melaka	-	21	21	21	17	12	16	21	6	18	9	19
8	Johor	70	70	70	72	68	70	70	70	48	34	20	39
9	Pahang & Kelantan	1	18	12	32	25	32	30	30	14	12	5	12
TOTAL		**82**	**256**	**338**	**423**	**338**	**327**	**308**	**305**	**253**	**236**	**126**	**288**

SCIENCE FAIR FOR YOUNG CHILDREN 2022

HBSF/ SLSF

- Home Based Science Fair (HBSF)/ School Level Science Fair (SLSF)
- SLSF and HBSF, the schools will be required to prepare and submit the SLSF/HBSF proposal and download the materials from our website and submit report once completed to the Science Fair Secretariat. ASTI will sponsor medals for the winners and e-certificates for the participants respectively. The SLSF & HBSF will be launch on early April

ZLSF

- Zone Level Science Fair (ZLSF)
- ZLSF 2022 will be conducted as an online competition due to covid-19 pandemic. The students will be required to conduct an experiment based on the given topic, explain the scientific methods and send a video together with poster. For the ZLSF, prizes and certificates will be provided by the organizer. ZLSF is planned to be launch on 21 May. SFYC is judges by over 100 experienced and professionals and academics.

NSFYC

- National Science Fair for Young Children (NSFYC)
- A total of 100 schools will be selected for the NSFYC. All the schools will be interviewed (VIVA) by panel of judges via an online platform according to the experiment their have conducted on ZLSF. The NSFYC is planned to be conducted in September.

SCHOOL LEVEL & HOME-BASED SCIENCE FAIR 2022

No	State	No of Schools (Proposal)	No of Schools (Report)
1	Johor	46	
2	Kedah	34	
3	Kuala Lumpur	10	
4	Melaka	17	
5	Negeri Sembilan	37	
6	Pahang	23	
7	Penang	24	
8	Perak	57	7
9	Selangor	42	
	Total	**290**	**7**

REGISTRATION AS OF 20 MAY 2022

ZONE LEVEL SCIENCE FAIR 2022

ZONE LEVEL SCIENCE FAIR 2022

State	No of Registration
Johor	41
Kedah	42
KL	13
Melaka	21
Negeri Sembilan	40
Pahang	23
Penang	22
Perak	92
Perlis	1
Selangor	44
Total	**339**

REGISTRATION AS OF 20 MAY 2022

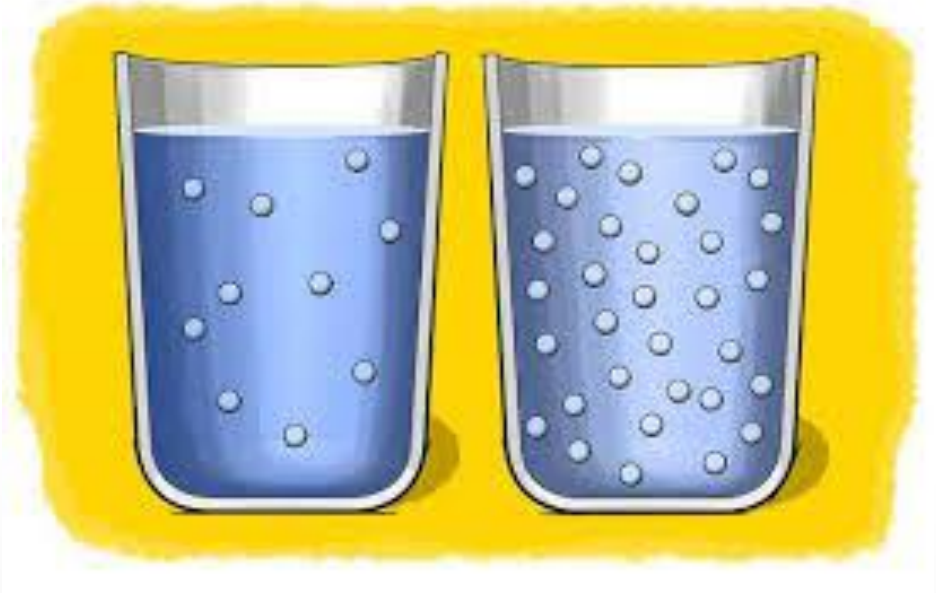
மாநில அளவிலான அறிவியல் விழா 2022
ZONE LEVEL SCIENCE FAIR 2022
We are cordially inviting all the SJKTs to participate in the Zone Level Science Fair 2022
PARTICIPATION REQUIREMENT
• Only 1 team per school
• A team must be consisting of 3-5 students
• Year 6 Students are not allowed to participate
Submit Participation Confirmation via Google Form link : https://rb.gy/mljq5h
26 APRIL-27 MAY 2022
SCAN ME
STEP 1
Join Official Launch, Teachers & Students Training. 21 MAY 2022
https://rb.gy/uu6rcq
SCAN ME
STEP 2
Choose the Experiment Title, Conduct Experiment, Prepare Video and Poster.
https://rb.gy/sjfnjy
21 MAY – 30 JUNE 2022
SCAN ME
STEP 3
Submit video and poster via the link below
https://rb.gy/avcng6
30 JUNE 2022
SCAN ME
STEP 4
PRIZES
Top 3 teams will be awarded from EACH STATE and all the participating students will be honored with E- Certificate of participation.
• 1 Gold Award – Cash Prize RM 1,000, E-Certificates & Gold Award Medals and a Trophy
• 1 Silver Award – Cash Prize RM 700, E-Certificates & Silver Award Medals and a Trophy
• 1 Bronze Award – Cash Prize RM 500, E-Certificates & Bronze Award Medals and a Trophy.

ZONE LEVEL SCIENCE FAIR 2022 TIMELINE

Description	Date
Registration	26 April – 27 May
Launching & Training	21 May
Video & Poster Preparation	21 May – 30 June
Video & Poster Submission	30 June
Viva for top 10 schools of each state	6 August & 13 August (Tentative)
Result Announcement	18 August (Tentative)

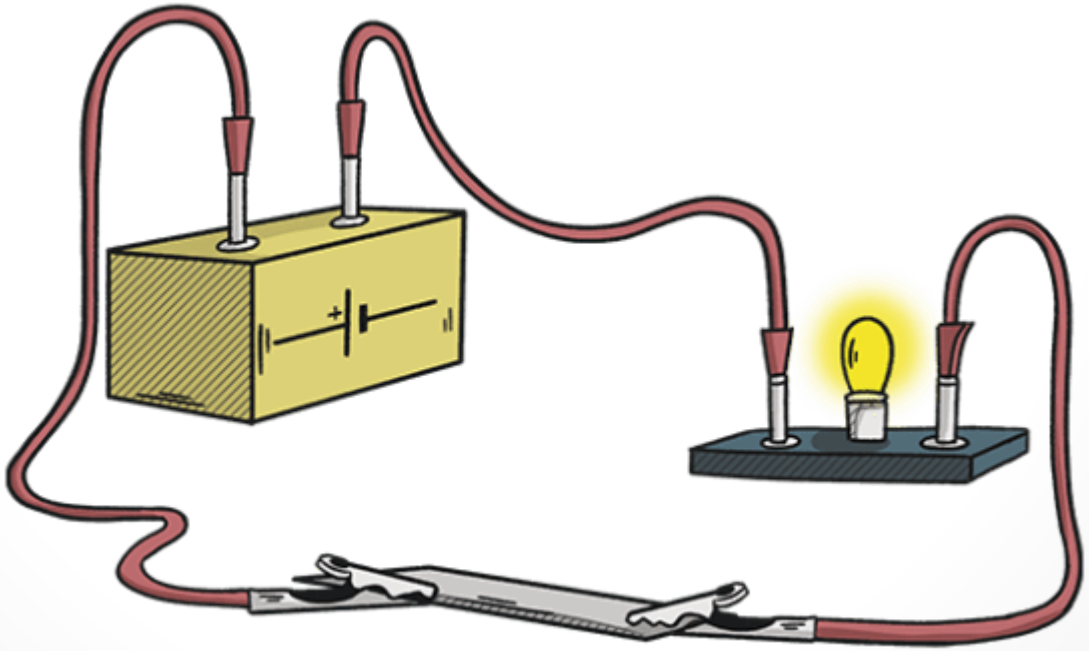
2022 SCIENCE FAIR FOR YOUNG CHILDREN QUESTIONS

1. Study the relationship between the solubility of a substance in water and the density of the solution formed.



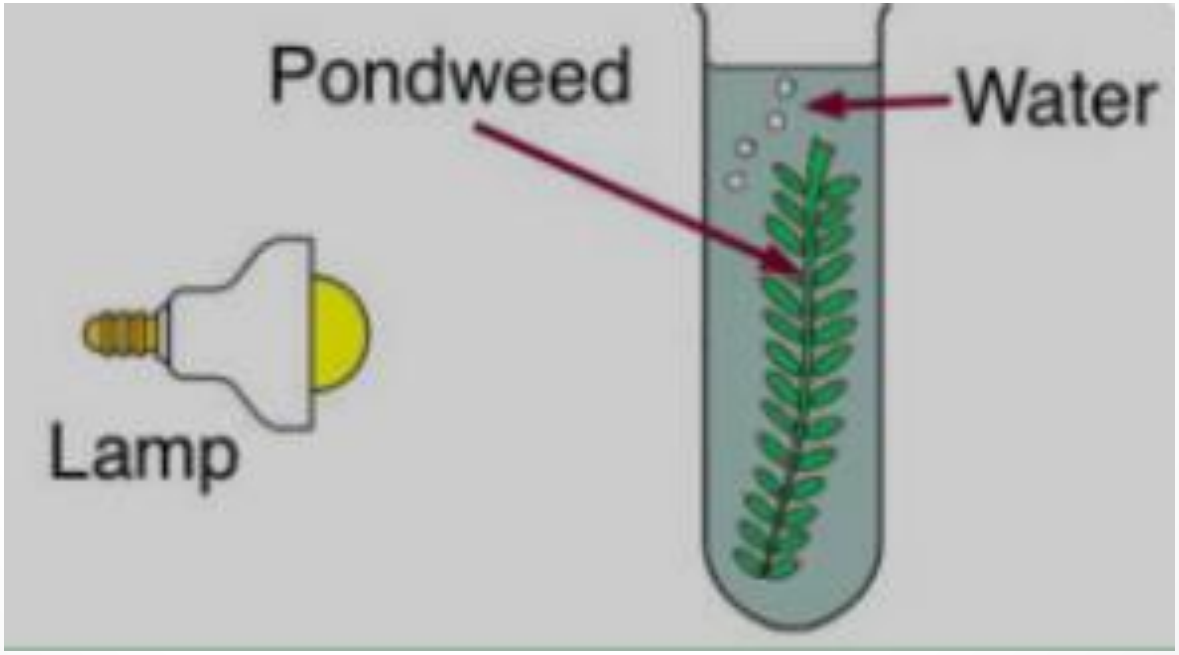
2022 SCIENCE FAIR FOR YOUNG CHILDREN QUESTIONS

2. Study the electric conductivity of different type of materials.

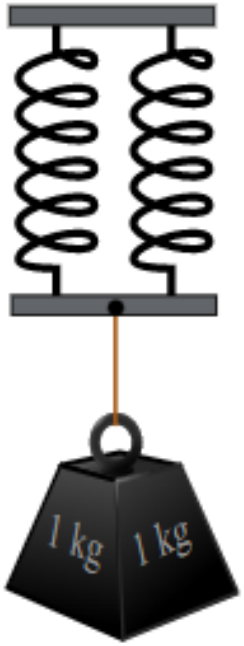


3. Study the relationship between the mass of starch in a bio plastic and the weight it can hold.

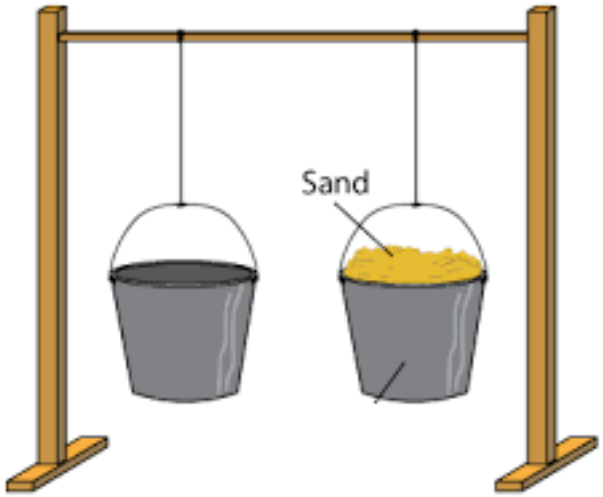
4. Study the relationship between the duration of time a plant is exposed to light and the rate of photosynthesis.



5. Study the relationship between the number of springs and the length of the springs when it holds a weight.

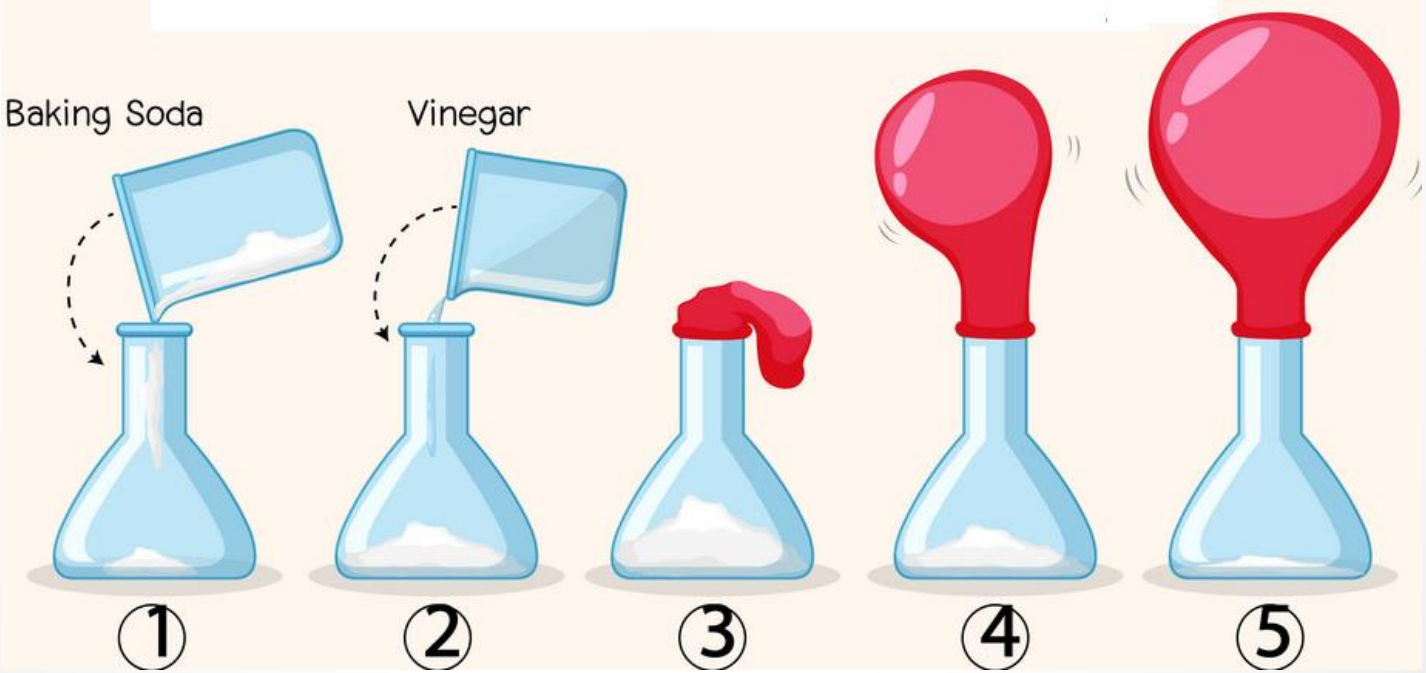


6. Study the relationship between an object's mass and its inertia.



7. Study the relationship between the type of the material of an object and the static charges that it produces.

8. Study the relationship between the amount of sodium bicarbonate and the volume of carbon dioxide gas produced in a reaction between baking soda (sodium bicarbonate) and vinegar.



9. Study the relationship between the potential energy of an object and the distance it can travel.

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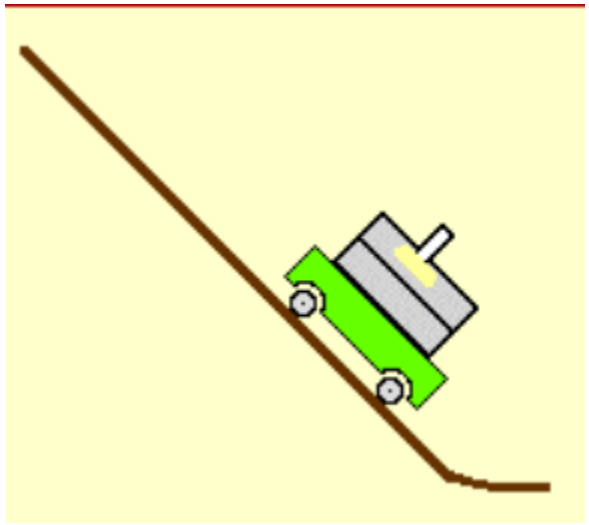

10. Study the relationship between the colour of an object and heat absorption.

JUDGING CRITERIA

2 ASPECTS WILL BE JUDGED

- POSTER
- DEMO AND PRESENTATION(VIDEO)

JUDGING CRITERIA FOR POSTER

5 FUNDAMENTAL CRITERIAS WILL BE LOOKED INTO FOR POSTER EVALUATION

CRITERIA 1
STARDARD REQUIREMENTS

a. Title of the experiment
b. Name of school
c. Name of group members
d. Maximum 1 Powerpoint slide

CRITERIA 2
CONTENT OF POSTER

a. Aim
b. Hypothesis
c. List of materials and apparatus
d. List of variables
e. Procedure (in past tense and passive manner)

CRITERIA 2
CONTENT OF POSTER

f. Tabulation of data
   - data is quantitative and with correct unit
   - samples

CRITERIA 2
CONTENT OF POSTER

g. Repetition
h. Representation of data in graph / chart and interpreted
i. Discussion using scientific principles and terms

CRITERIA 2
CONTENT OF POSTER

j. Conclusion
k. Safety precautions

CRITERIA 3
ILLUSTRATIONS

a. Diagrams

CRITERIA 4
ACKNOWLEDGEMENT

CRITERIA 5
BIBLIOGRAPHY

a. APA format

APA format

Author's last name, first initial. (Publication date). *Book title*. Additional information. City of publication: Publishing company.

Jensen, G. & Wiest, A. A. (2001). *War in the age of technology myriad faces of modern armed conflict*. New York : New York University Press.

(if website, the date the website was retrieved was mentioned)

APA format

(if website, the date the website was retrieved was mentioned)

JUDGING CRITERIA FOR DEMO AND PRESENTATION (VIDEO)

4 FUNDAMENTAL CRITERIAS WILL BE LOOKED INTO FOR DEMO AND PRESENTATION (VIDEO) EVALUATION

CRITERIA 1
DEMO AND PRESENTATION

a. Title of the experiment
b. Aim of the experiment
c. Hypothesis
d. List of variables

CRITERIA 1
DEMO AND PRESENTATION

e. Procedure of the experiment
f. Observation of the experiment
g. Results of the experiment
h. Conclusion

CRITERIA 1
DEMO AND PRESENTATION

i. Discussion on the result of the experiment
j. Recommendations
k. Presenters confidence, eloquence and usage of terms

CRITERIA 1
DEMO AND PRESENTATION

l. Scientific principles
m. Practical / daily usage

CRITERIA 2
AUDIO AND VIDEO QUALITY

CRITERIA 3
LENGTH OF VIDEO

a. Within 15 minutes

CRITERIA 4
SOCIAL DISTANCING AND SAFETY MEASURES

THANK YOU !

STAND A CHANCE TO WIN
1st prize : RM 700
2nd prize : RM 500
3rd prize : RM 300
4th prize : RM 200
5th prize : RM 100
ASTI Feynman Challenge
Participation is FREE
Association of Science, Technology and Innovation (ASTI) is a not-for-profit organisation with the main objective to empower young people to think independently through various science-based and, skills-development projects.
The ASTI Feynman Challenge (AFC) is an online project first developed and implemented during the MCO period in 2020. AFC received a tremendous response with over 600 registrations from 7 countries and 318 videos received.
AFC requires a team of two people or more where you can work on the challenge from anywhere even from your home! In AFC, you have to create something simple invention (invent a product/new method/new experiment) that you use to teach a scientific principle you have learnt at school. For example, your invention can be created with any object that you find at home; e.g. you can design and build a catapult made of clips and rubber bands to teach the 3rd Law of Newton. Just send us a video with your explanation.
We use the
FEYNMAN TECHNIQUE
in this project comprising of 4 simple steps:
1. CHOOSE A CONCEPT YOU WANT TO LEARN/TEACH
2. INVENT YOUR TEACHING TOOL AND TEACH IN A SIMPLE WAY
3. IDENTIFY GAPS IN YOUR EXPLANATION AND IMPROVE
4. REVIEW AND SIMPLIFY
SCAN THE QR CODE
FOR MORE DETAILS AND LATEST DEADLINES
3 CATEGORIES
CATEGORY 1 : Primary (10-12 years old)
CATEGORY 2 : Secondary (13-17 years old)
CATEGORY 3 : Above 18 years old
We also have up to 3 special inclusivity Awards to give to teams who have gone above and beyond great odds to produce fantastic videos - each at RM500.
All qualified participants will receive digital certificates.
Visit www.asti.org.my/afc2022/ to Register your team details and Download Terms & Conditions and modules.
For further details kindly email us at astifeynman2020@gmail.com or WhatsApp us to 014 712 4217

Registration Only for Teachers