Project Code:

SINGAPORE SCIENCE & ENGINEERING FAIR 2022 (MAIN CATEGORY) ENTRY FORM

Please refer to the SSEF 2022 website (<u>http://www.science.edu.sg/ssef</u>) for details on the application process and all the submission requirements.

All project documents must be received Friday, 21 January 2022, 17:00hrs.

PROJECT INFORMATION		
Type of Participation:	Project Category*:	Project Sub-Category*:
🗆 Individual		
🗆 Team		
Title of Research Project:		

* Please refer to Annex A for the list of categories and sub-categories. Selecting the appropriate category and sub-category is important to ensure that the assigned judges are familiar with your research topic.

DECLARATION BY PARTICIPANT(S)§

I / We hereby certify that all the information provided to SSEF organisers is correct. I / We did not plagiarise material, forge or fabricate data, use or present other researcher's work as our own in my / our research project. I / We consent to the use of the information / project I / we submit to the organisers for publicity purpose. I / We understand that all the materials I / we submit will not be returned to me / us.

Individual / Team Leader (i.e. team member 1)

Full name:		School Level (e.g. Sec 3, IP4)
Signature:	School:	Date: (MM/DD/YY)
For Team Projects:		
Team Member 2		
Full name:		School Level (e.g. Sec 3, IP4)
Signature:	School:	Date: (MM/DD/YY)
Team Member 3		
Full name:		School Level (e.g. Sec 3, IP4)
Signature:	School:	Date: (MM/DD/YY)

[§] Note that participant(s) of SSEF may be contacted through e-mail for future STEM-related activities or surveys.

SCHOOL'S ENDORSEMENT For individual project / team projects with members from the <u>same</u> school		
Teacher-in-charge's full name:	Teacher-in-charge's email addr	ress:
Teacher-in-charge's signature:	D	Date: (MM/DD/YY)

SCHOOL'S ENDORSEMENT For team projects with members from <u>different</u> sch	nools	
For team member 1		
Teacher-in-charge's full name:	Teacher-in-charge's email ad	ldress:
Teacher-in-charge's signature:		Date: (MM/DD/YY)
For team member 2		
Teacher-in-charge's full name:	Teacher-in-charge's email ad	ldress:
Teacher-in-charge's signature:		Date: (MM/DD/YY)
For team member 3		
Teacher-in-charge's full name:	Teacher-in-charge's email ad	ldress:
Teacher-in-charge's signature:		Date: (MM/DD/YY)

SSEF MAIN CATEGORY 2022 PARENT/GUARDIAN CONSENT FORM (INDIVIDUAL/TEAM MEMBER 1) FOR SSEF 2022

In participating in SSEF 2022, the following may be shared on MOE and SSEF's social media platforms (Website, Facebook and Instagram pages) which are accessible to the general public:

- 1. Images and videos of my child/ward* participating in SSEF 2022 and ISEF 2022, if applicable;
- 2. Materials my child/ward* used during participation in SSEF 2022 and ISEF 2022, if applicable;
- 3. My child/ward*'s learning experience at SSEF 2022 and ISEF 2022, if applicable.

If you agree to your child / ward participating in the SSEF 2022, please fill in the blanks and sign below.

I, _____ (name of parent / guardian), acknowledge that I have read and understood the information above.

I hereby give permission for any image or video of my child / ward, ______, (name of child / ward) captured during SSEF 2022 and ISEF 2022, if applicable, to be used for the activities listed above.

I declare that I have the authority to sign this release and that I have read and understood this agreement prior to signing it.

PARENT'S/GUARDIAN'S SIGNATURE:	Date:

SSEF MAIN CATEGORY 2022 PARENT/GUARDIAN CONSENT FORM (TEAM MEMBER 2) FOR SSEF 2022

In participating in SSEF 2022, the following may be shared on MOE and SSEF's social media platforms (Website, Facebook and Instagram pages) which are accessible to the general public:

- 1. Images and videos of my child/ward* participating in SSEF 2022 and ISEF 2022, if applicable;
- 2. Materials my child/ward* used during participation in SSEF 2022 and ISEF 2022, if applicable;
- 3. My child/ward*'s learning experience at SSEF 2022 and ISEF 2022, if applicable.

If you agree to your child / ward participating in the SSEF 2022, please fill in the blanks and sign below.

I, ______ (name of parent / guardian), acknowledge that I have read and understood the information above.

I hereby give permission for any image or video of my child / ward, ______, (name of child / ward) captured during SSEF 2022 and ISEF 2022, if applicable, to be used for the activities listed above.

I declare that I have the authority to sign this release and that I have read and understood this agreement prior to signing it.

PARENT'S/GUARDIAN'S SIGNATURE:	Date:

SSEF MAIN CATEGORY 2022 PARENT/GUARDIAN CONSENT FORM (TEAM MEMBER 3) FOR SSEF 2022

In participating in SSEF 2022, the following may be shared on MOE and SSEF's social media platforms (Website, Facebook and Instagram pages) which are accessible to the general public:

- 1. Images and videos of my child/ward* participating in SSEF 2022 and ISEF 2022, if applicable;
- 2. Materials my child/ward* used during participation in SSEF 2022 and ISEF 2022, if applicable;
- 3. My child/ward*'s learning experience at SSEF 2022 and ISEF 2022, if applicable.

If you agree to your child / ward participating in the SSEF 2022, please fill in the blanks and sign below.

I, _____ (name of parent / guardian), acknowledge that I have read and understood the information above.

I hereby give permission for any image or video of my child / ward, ______, (name of child / ward) captured during SSEF 2022 and ISEF 2022, if applicable, to be used for the activities listed above.

I declare that I have the authority to sign this release and that I have read and understood this agreement prior to signing it.

PARENT'S/GUARDIAN'S SIGNATURE:	Date:

ANNEX A – SSEF 2022 CATEGORIES (STATED IN BOLD AND CAPTIALISED) AND THE CORRESPONDING SUB-CATEGORIES

Please visit the website at <u>https://www.societyforscience.org/isef/categories-and-subcategories/all-categories/</u> for a full description and definition of the categories and sub-categories.

ANIMAL SCIENCES (AS)

- Animal Behavior
- Cellular Studies
- Development
- Ecology
- GeneticsNutrition and Growth
- Nutrition and
 Physiology
- Systematics and Evolution

BEHAVIORAL AND SOCIAL SCIENCES (BH)

- Clinical and Developmental Psychology
- Cognitive Psychology
- Neuroscience
- Physiological Psychology
- Sociology and Social Psychology

BIOCHEMISTRY (BI)

- Analytical Biochemistry
- General Biochemistry
- Medicinal Biochemistry
- Structural Biochemistry

BIOMEDICAL AND HEALTH SCIENCES (BM)

- Cell, Organ, and Systems Physiology
- Genetics and Molecular Biology of Disease
- Immunology
- Nutrition and Natural Products
- Pathophysiology

BIOMEDICAL ENGINEERING (BE)

- Biomaterials and Regenerative Medicine
- Biomechanics
- Biomedical Devices
- Biomedical Devices
 Biomedical Sensors and Imaging
- Cell and Tissue Engineering
- Synthetic Biology

CELLULAR AND MOLECULAR BIOLOGY (CB)

- Cell Physiology
- Cellular Immunology
- Genetics
- Molecular Biology
- Neurobiology

CHEMISTRY (CH)

- Analytical Chemistry
- Computational Chemistry
- Environmental Chemistry
- Inorganic Chemistry
- Materials Chemistry Organic Chemistry
- Physical Chemistry

COMPUTATIONAL BIOLOGY AND BIOINFORMATICS (CO)

- Computational Biomodeling
- Computational Epidemiology
- Computational Evolutionary Biology
- Computational
- Neuroscience - Computational
- Pharmacology
- Genomics

EARTH AND ENVIRONMENTAL SCIENCES (EA)

- Atmospheric Science
- Climate Science
- Environmental Effects on
- Ecosystems
- Geosciences
- Water Science

EMBEDDED SYSTEMS (ES)

- Circuits
- Internet of Things
- Microcontrollers
- Networking and Data Communications
- Optics
- Sensors
- Signal Processing

ENERGY: SUSTAINABLE MATERIALS & DESIGN (EY)

- Biological Process and
- Design
- Solar Process, Materials,
- and Design
- Energy Storage
- Wind and Water Movement Power Generation
- Hydrogen Generation and Storage
- Thermal Generation and Design
- Triboelectricity and Electrolysis

ENGINEERING MECHANICS (EM)

- Aerospace and Aeronautical Engineering PHYSICS AND

ASTRONOMY (PH)

Optical Physics

Materials

Physics

Ecology

Pathology

Plant Physiology

ROBOTICS AND

MACHINES (RO)

Control Theory

- Robot Kinematics

(SS)

- Algorithms

- Databases

Systems

- Mobile Apps

Diagnosis

Therapies

Testing

_

- Online Learning

TRANSLATIONAL

- Disease Detection and

Disease Treatment and

Drug Identification and

Pre-Clinical Studies

- Disease Prevention

- Cybersecurity

Cognitive Systems

Machine Learning

SYSTEMS SOFTWARE

Human/Machine Interface

Languages and Operating

MEDICAL SCIENCE (TM)

INTELLIGENT

- Biomechanics

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Mechanics

Biological Physics

- Nuclear and Particle

Atomic, Molecular, and

Condensed Matter and

Astronomy and Cosmology

- Theoretical, Computational,

and Quantum Physics

PLANT SCIENCES (PS)

- Agriculture and Agronomy

Genetics and Breeding

Growth and Development

- Systematics and Evolution

- Civil Engineering
- Computational Mechanics
- Control Theory
- Ground Vehicle SystemsIndustrial Engineering-
- Processing Machanical Engineering
- Mechanical EngineeringNaval Systems
- ENVIRONMENTAL

ENGINEERING (EE)Bioremediation

- Land Reclamation
- Pollution Control
- Recycling and Waste Management
- Water Resources Management

MATERIALS SCIENCE (MS)

- Biomaterials

- Nanomaterials

- Polymers

- Algebra

- Analysis

- Ceramic and Glasses
- Composite Materials
- Computation and Theory
- Electronic, Optical, and Magnetic Materials

MATHEMATICS (MA)

Combinatorics, Graph

Theory, and Game Theory

Geometry and Topology

Probability and Statistics

- Antimicrobial and Antibiotics

Environmental Microbiology

MICROBIOLOGY (MI)

Applied Microbiology

- Number Theory

Bacteriology

- Virology

- Microbial Genetics