



The 2018 National Science, Technology and Innovation Festival (NSTIF)

15-19 February 2018 Festival Arena Dubai



The Ministry of Education is pleased to announce that the National Science, Technology and Innovation Festival (NSTIF), which is a key initiative that supports the UAE's overall vision, will be held in conjunction with the UAE Innovation Month and running from February 15-19, 2018 at the Festival Arena, Dubai.

The festival is set to attract both students and teachers with its fun environment that fosters a passion for science, technology, innovation and entrepreneurship. NSTIF brings together leading international experts and institutions in science, technology, innovation and entrepreneurship.









There are two main Competitions at the Festival: The Science Fair 'My Idea' (Fikrati)

The Science Fair is a platform where students can present the research outcomes of their scientific project and showcase the scientific methodology behind it. The innovative scientific research projects will be evaluated, according to a specialized committee in order to identify the winners.

- Category 1: Students in grade 6 to 8
- Category 2: Students in grades 9 to 12

"Fikrati" (my idea) gives young elementary students (from Kindergarten to grade 5) the opportunity to present their innovative ideas to qualified specialists in a friendly competitive environment. The students will be evaluated based on the originality of the idea, level of innovation, feasibility of its application, expected value added and much more.

- o Group 1: Kindergarten students
- o Group 2: Students in grades 1 to 3
- o Group 3: Students in grades 4 to 5





Science Fair Categories

The Main 4 Areas of Participation:

Technology

This category includes: e.g. communications, electronic systems, robotics, computing, control technology, applications of technology, biotechnology, automation.

Biological & Ecological Sciences

These category includes: agriculture, anatomy, biochemistry, biotechnology, ecology, horticulture, physiology, medical science, veterinary science.

Social & Behavioural Sciences

These category includes: economic, geographical, psychological or sociological studies of human behaviour, nutrition, social anthropology, political science.

Chemical, Physical & Mathematical Sciences

These category includes: chemistry, physics, mathematics, applied mathematics, geology, engineering, computer programming, meteorology, astronomy.







The National Science, Technology and Innovation Festival Awards





First Competition: The Science Fair

The Awards of First Competition

The Awards Category	# Awardees	Award Value (in Dirhams)
The First Category: The young Scientist Award/The Grand Prize.	1	25,000 for only one winner
 The Second Category: 2 Awards for each of the 4 Core Areas. (one for each participating groups): Group 1: Participants from Grades 6 to 8. Group 2: Participants from Grades 9 to 12. 	8	4,000 for each winner of the two categories for each of the main core areas: -Technology -Biological & Ecological Sciences -Awards, Social & behavioural Science and Chemical -Physicial & Mathematical Sciences

The Third Category:

STI Awards in 24 different	24	2000 for the winner from each
categories		category



Second Competition: My Idea (Fikrati)

The Awards of the Second Competition

The Awards Category	# Awardees	Award Value (in Dirhams)
The participation for this competition is open to the 3 groups: Group 1: Kindergarten students Group 2: Students in grades 1 to 3 Group 3: Students in grades 4 to 5	3	5,000 for each winner from each group

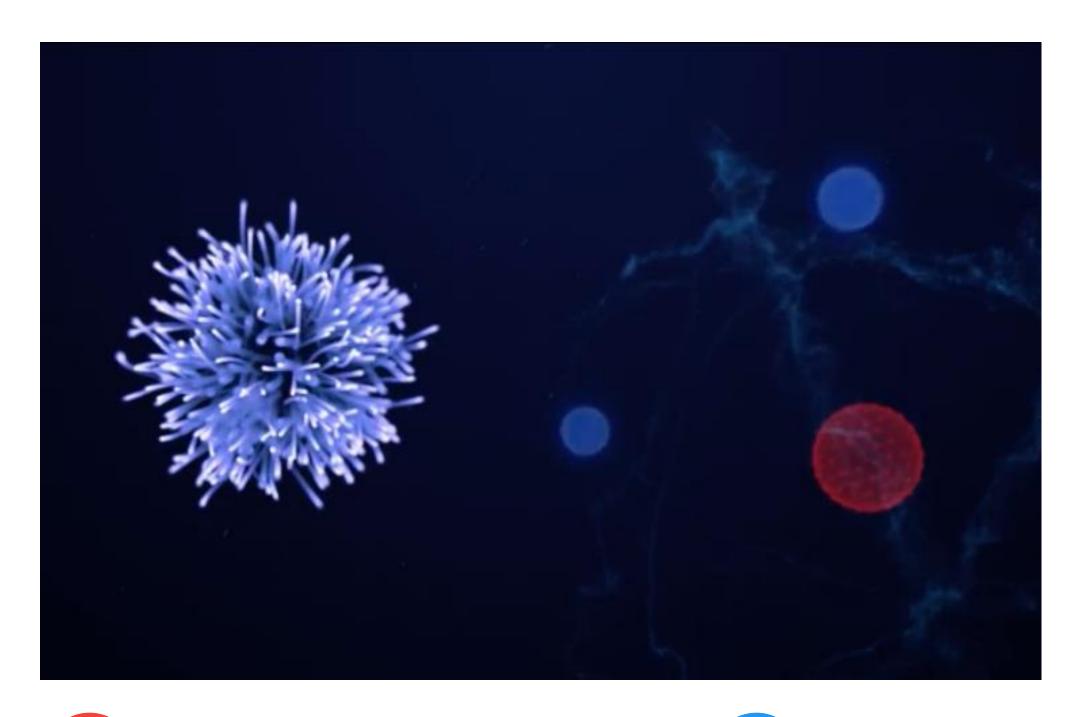






NSTI Science Fair/Fikrati Registration

NSTI Science Fair/Fikrati Registration



To Register for the Science Fair use the following link:

http://nstifestival.ae/sciencefair

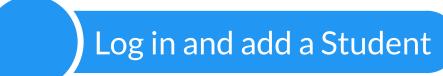
To Register for 'Fikrati' use the following link:

http://nstifestival.ae/fikrati





Teacher







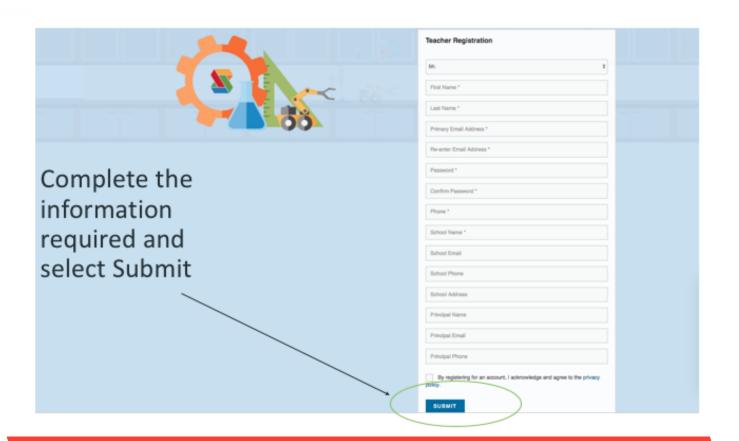
Teacher

Deadlin e Feb 5th





Teachers must register and complete all milestones before the 5th of February by clicking on the provided link and filling in all information.



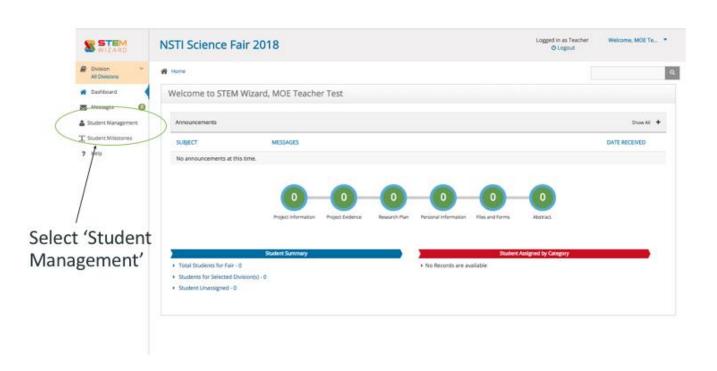
Complete the information required and select Submit. Approval must be granted by NSTI Admins before the teachers can log in. This typically takes 1 hour.



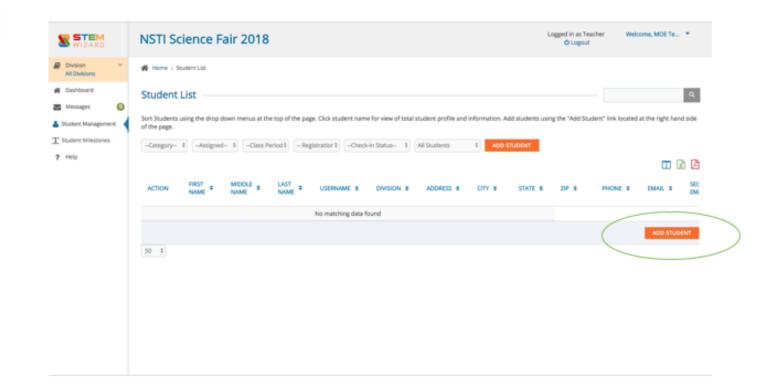
Log in and add a

Deadlin e Feb 5th





Teachers must add their students to the platform. When logged in you click on "Student Management".



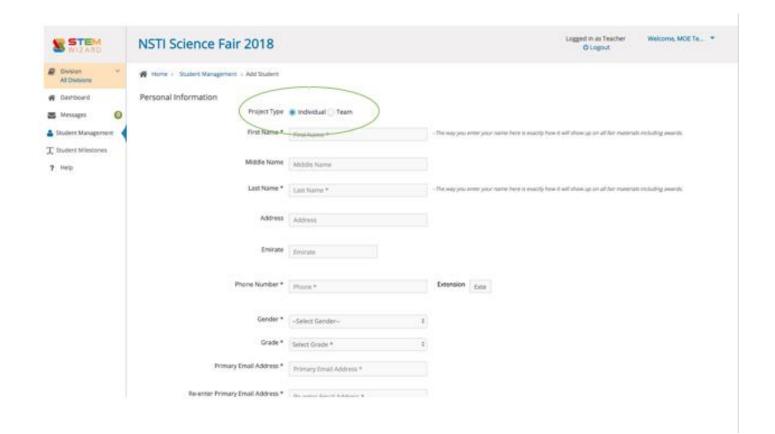
You must now add the student names who are partaking in the competition by selecting "Add Student" at the bottom of the page



Log in and add a

Deadlin e Feb 5th





If your student is partaking as an individual in the Science Fair or Fikrati please insure 'Individual' is selected. If there is more than one team member please ensure 'Team' is selected.

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Gender *	Male	#	
Grade *	10	+	
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Re-enter Primary Email Address *	teststudentijimoe.gov.ae		
Parent/Guardian/Secondary Email Address	parentenal@mox.gov.ae		
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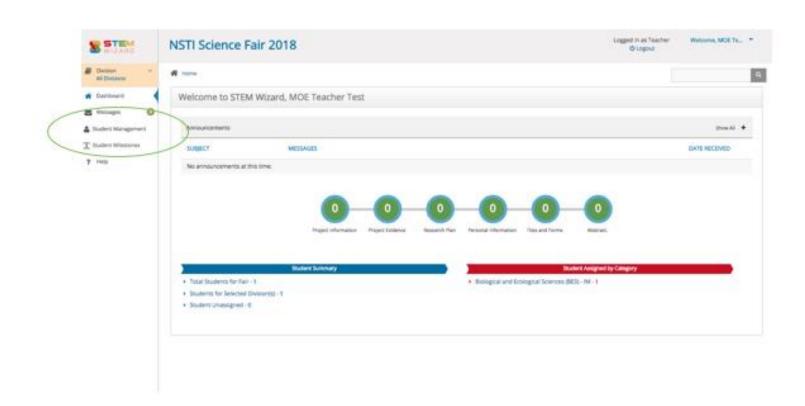
When all necessary information has been completed, Click
Submit at the bottom of the page.



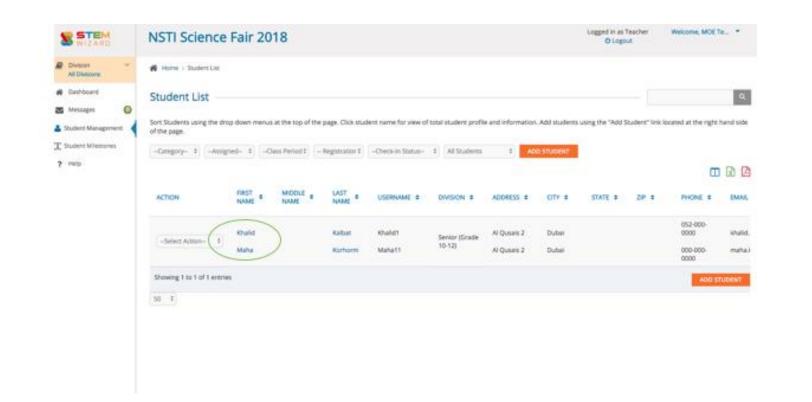
Completing the Milestones







You must now select 'Student Management' again



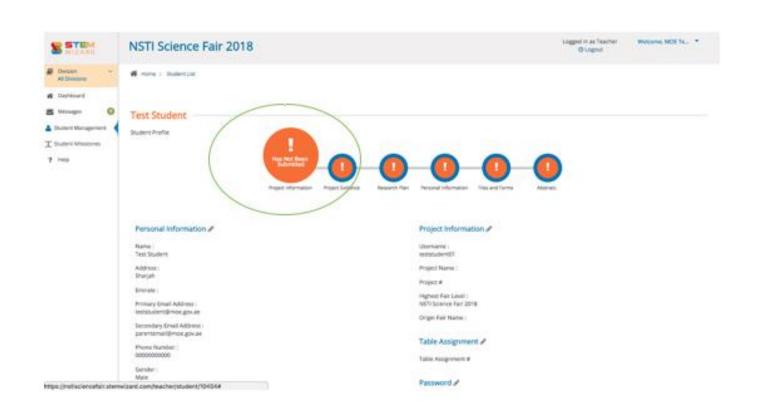
Select the student names from the individual/group project.



Completing the Milestones

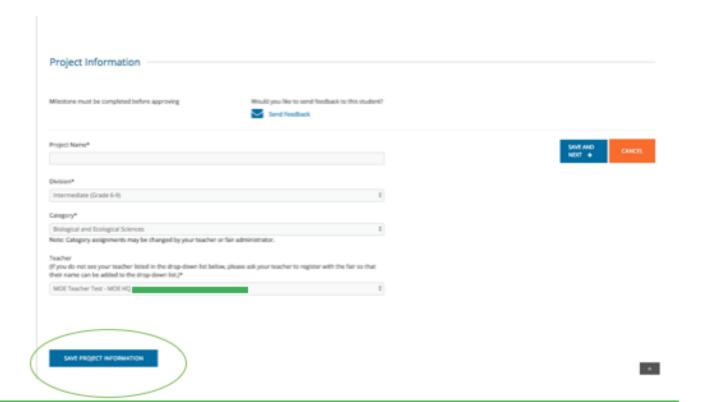






You will be brought to this page.

The first step you must complete is 'Project Information' for both Science Fair and Fikrati



Fill in the information related to the students project and select 'Save Project Information'



Completing the Milestones





liestone must be completed before approving	Would you like to send feedback to this stu Send Feedback	dent?	
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vision*			
ntermediate (Grade 6-9)		0	
stegory*			
Siological and Ecological Sciences		0	
ste: Category assignments may be changed by your teach sacher you do not see your teacher listed in the drop-down list I eir name can be added to the drop-down list.]*	rer or fair administrator. below, please ask your teacher to register with the fair so t	hat	

You will now select 'save and next'



You are now ready to begin your second milestone

You will repeat these steps until all milestones are completed.





Judges Tips: Science

Fair

Our very experienced and specialized judges have identified the most common weaknesses in projects at the festival. These weaknesses could result in the project not being as successful as it possibly could be. Please review before submitting your project.

PRIMARY RESEARCH

Some studies are little more than a description of what is already known about the topic. Researching the existing body of knowledge is only the first stage of any scientific study.

UNRELIABLE EXPERIMENTAL METHODS

Frequently, projects state a particular method for data collection, which simply cannot collect the data required. Suppose the aim of the project was to find out which washing powder was most effective. All too often students write that they will gather this information via questionnaire

VAGUENESS/UNFOCUED OBJECTIVE

A study which aims to find out all about the ozone layer is not a realistic scientific study as noone could be expected to find this out in the given time. Scientific research requires you to be very specific about what you wish to find out and setting measurable objectives is the only way to present scientific investigation.

SAFETY ISSUES

Projects which put the students themselves or others at risk of physical injury or disease will not be accepted for the festival.

INVESTIGATION PERIOD

Sometimes students propose a project that is weak because the period over which the project is being carried out is too short. Judges need to be convinced that the student has given enough time to complete the project.

SCIENCE FAIR SUCCESS STEPS







It is recommended that the students keep a diary which should contain: day-to-day records of how the project is progressing, a full record of the names of sources you have researched. Record everything in your diary and use it as an information store for writing your abstract and completing your display. The students can write a personal comment about how your project is progressing.



PROJECT REPORT BOOK

In order to fully prepare yourself for the judging criteria on the day of the events it is recommended that you report all of your findings in this organized way:

- 1) Title
- 2) Summary
- 3) Introduction
- 4) Experimental Methods
- 5) Results
- 6) Conclusion
- 7) Recommendation for further research



VISUAL DISPLAY

Your display is a summary of your project. Do not try to display your entire project, cover just the main points and highlights. Plan your display well in advance. Use a plan to help you make the best use of your space. Work out the dimensions of everything you want to include. How your project is displayed on your stand will be taken into consideration by the judges when reaching their decision.

CORRECTLY PRESENTED AND WELL CONSTRUCTED

Be sure to adhere to the size limitations when preparing the display. The poster display area is A0 (1189mm X 841mm) The desk is 1100mm X 550mm. The NSTI Festival will not allow additional display space for any project.

A GREAT TITLE

The title is an extremely important attention-grabber, which should simply and accurately present the research. The title should make the casual observer want to know more.

ORGANISATIO

Make sure the display is logically presented and easy to read. A glance should permit anyone to locate quickly the title, experiments, results and conclusions. When arranging the display, imagine that you are seeing it for the first time.



TAKE PHOTOGRAPHS OF YOUR EXPERIMENT

Many projects involve elements that may not be safely exhibited at the exhibition but are an important part of the project. Take photographs of important parts/phases of your experiment to use in your display.

EYE-CATCHIN

Make your display stand out. Use neat, colourful headings, charts, and graphs to present your project. Homebuilt equipment, paper and use of colour are excellent for project displays. Pay special attention to the labelling of graphs, charts, diagrams and tables, each item must have a descriptive title. Anyone should be able to understand the visuals without further explanation. Make sure that the text is large enough to be read easily.





Support for the Science Fair and Fikrati



The **STREAM Team** is a specialized group of Ministry staff who are highly trained in incorporating Science, Technology, Reading, Engineering, Art and Mathematics into everyday education. The STREAM Teams goal is to advance and supplement STREAM education through a variety of activities and experiments in the classes. They will be supporting the Teachers, schools and students in incorporating this into the schools by helping you with the following:

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TECHNICAL ASSISTANCE WITH REGISTRATION AND MILESTONE COMPLETION. The STREAM on a closer basis with the

The STREAM on a closer basis with the Science Fair and Fikrati Platforms by the NSTI Admins for any issues with registration and Milestone completion.

02

WEEKEND WORKSHOP FOR EXPERIMENTS.

The STREAM team organize and assist the participants in their experiments on Friday the 2nd and Saturday the 3rd of February in a local community school.

COLLABORATE WITH TEACHERS

The STREAM team will offer their specialized guidance on experimental methods and data collection in collaboration with teachers. This aims to ensure that students are entering the competition with the best possible research

04

WEEKEND WORKSHOP FOR DISPLAYS

The STREAM team will organize and assist the participants in their displays on Friday the 9th and Saturday the 10th of February in a local community school.

ORGANISATION OF PARENTAL CONSENT FORMS

Assisting the school teachers in the organization of student files/forms and submission via the NSTI Science Fair/Fikrati Platforms.

06

STUDENT MANAGEMENT

The STREAM teams will work in collaboration with the teachers to ensure that all students are supervised and are abiding by the Ministry of Education code of conduct before and throughout the festival.

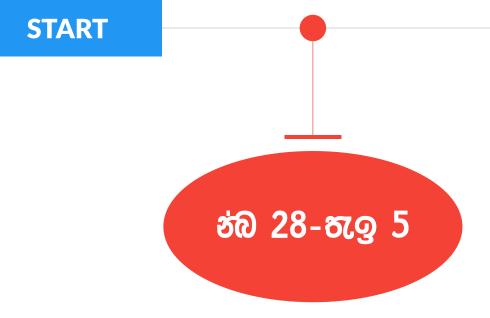




After completion of the registration stage the students must be added to the platform as either an individual or a group project (maximum 4 in a group)

ADD STUDENT





The first step will be to complete teacher registrations on the following platforms depending on the student grade:

KG-Grade 5 - http://nstifestival.ae/fikrati

REGISTRATION

Grade 6-12 - http://nstifestival.ae/sciencefair

Ensure that all available facilities and resources are utilized prior to experiments being undertaken. This will maximize the experimental efficiency.

Complete all files and forms to be signed by parents/legal guardians and uploaded onto the platform. All documents can be downloaded on the platform on the "Files and Forms" milestone.



Jan 28-Feb 5

FILES AND FORMS

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Jan 28-Feb 5

COMPLETE MILESTONES

The first Milestone is "Project Information" for both Science Fair and Fikrati competitions. Be as descriptive as possible in naming your project and describing your experimental procedure.



Experimental Procedure will be carried out during available classroom time and on the weekend of the the 2nd and 3rd of February under the guidance of the STREAM team member/teacher.

Remember to take photos and document everything in a diary!

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ABSTRACT

The abstract will aim to summarise your findings from throughout your experiment. This will be one of the most important elements and will be questioned throughout the festival.



After the abstract has been submitted the entry is considered by a panel of screening judges who carefully consider every project. Following their decision, you will be informed whether or not the project has qualified for the festival. The judges may also request further information at this stage. This screening process will take 2 days to complete

Feb 7

UNSUCCESSFUL PROJECT

This means that the project will not be presented at the NSTI festival in February. The reason for nonqualification is sent by email to the teacher.

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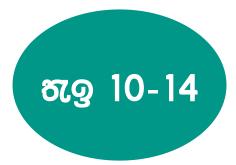
Successful Project

Teachers will receive an email confirming that the judges have accepted the project. This will also contain more details regarding the festival.



Student preparation with regard to expected behavior, event facilities, timetabling of activities, and all rules.

STUDENT PREPARATION



NSTI FESTIVAL

The family orientated festival will run for 5 days. During this time, parents, Judges, teachers, families and VIP's will be attending and viewing the experiments.



PRE EVENT PREPARATION

The evening before the festival begins the STREAM team, teachers and students will prepare their results, displays and speeches for the following days. This will begin from 2pm-9pm.



SCIENCE FAIR/FIKRATI

On these days the STREAM team and Teachers will assist in the completion of their displays for the Festival. Remember the most eye catching display will gather attention and create interest in your experiment.