

Inspirational Science Learning Key Stage 3, 4 and above

How inspired would your science students be if they could go to the North Pole, work with NASA or take part in game relocation in South Africa?

YOUTH
EXPLORING
SCIENCE

www.YEScience.org

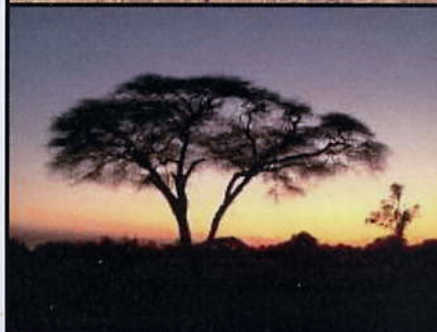
You need innovative ideas, tools and support to teach science subjects in today's world. **Youth Exploring Science (YES)** primary objective is to provide a bridge between scientific theory taught in schools and its application in actual scientific field work.

Youth Exploring Science offers teachers and students an opportunity to increase knowledge levels, develop new skills and contextualise science in an environment that gives excitement, meaning and purpose to learning and **providing CV enhancement**.

Modules include the study of **Rhino's in Botswana**, **Desert Elephants in Namibia**, **Endangered species in South Africa**, **Condors in Ecuador**, **Reindeer in Norway** and more. All of these research projects have teamed up with YES to enable students to become involved in established **projects** that capture their interests and inspire them to become more involved.

Each module **covers cross curricular** subjects for science at Key stage 3, 4 and above. On average a module will touch on 30-50 teaching aims covering Biology, Chemistry, Physics and Geography. The **learning starts in the UK** by your school being visited by either the scientist or the project manager who will act as a **Mentor** connected to the project.

Mentors will work with teachers to **set learning goals**, deadlines, explain problems and also be there purely as a **helpful resource**. The Mentors will visit the school a minimum of three times during the Module and will also meet parents.



The **field research** will include a seven day visit in-country to work with scientists and collect live data needed for the project. The students will carry out their own research and be able to present findings when they return to the UK. This is directly inline with **"Global dimension"** promoted by the QCA

Teachers can elect for their students to follow the working of a module **via the internet** and not actually be involved in the field research. This is a form of **distance learning** where the schools undertaking the Module will update the YES website as they progress.

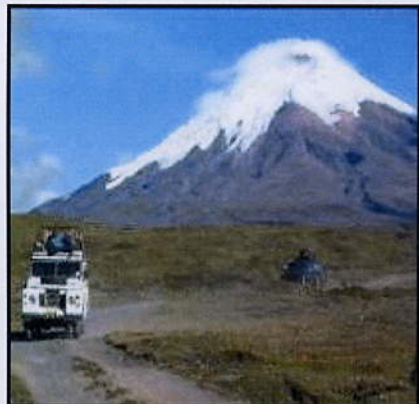
This year, we enabled the first UK secondary school to participate in a space settlement design competition held at **NASA Johnson Space Centre** in Texas Houston. The students of Riddlesdown Collegiate won second place competing against schools from the US, India, Pakistan, Uruguay, Australia and Romania. A new **Nation Wide Competition** to select the next UK school to go to **NASA in 2010** will start soon.

Teachers: If you and your students have **ideas or plans that could create a new module** with scientists who are working abroad on a similar project then YES may be able to help you. We welcome all suggestions, we will research the projects further to assess if it meets the criteria. If deemed suitable YES would take care of planning, **Risk Assessments**, Insurance, all staffing issues and **provide relevant Mentors**.

Featured Current Modules

Arctic Experience Svalbard

Work with a scientist to compare the human body and how it works in an extreme environment. Explore the frozen Arctic Ocean and learn how the melting icecaps may affect the world and climate change. A challenging research project to the world's most Northern Island with more Polar Bears than people.



Botswana Rhino Sanctuary

Rhino's have survived since prehistoric times; learn about these animals from scientists whose work is adding to the global understanding of these fascinating creatures. Track them in the wild collecting live data on habits, behaviour and preferences of vegetation or areas that they frequent.



Desert Elephants in Namibia

Work along side the world's expert in desert elephant research based in Namibia. For the past 15 years this project's scientist has pioneered satellite tracking of these elephants and linked up with a community outreach program. Studying the movements and the areas in which these huge animals roam whilst collecting data about what sustains them is an experience that students will never forget.



Condors in Ecuador

The Condor is the biggest flying bird on the planet and their numbers are in decline. Work with the leading research project in Ecuador in the foothills of Cotopaxi learning about these incredible birds of prey. Get involved with all levels of study and provide the scientist with much needed data and learn about these fascinating birds and the difference in cultures and the way these birds are respected in South America.

Endangered Species in S. Africa

A renowned wildlife vet has been protecting the gene pool of endangered species for the last 20 years and the research that he is collecting is ever increasing. Students will work on a selected project whilst experiencing the best that Africa has to offer. Students may also have the opportunity to participate in essential game relocation during their material field research visit.

"I have just had the best time of my life; working with amazing people in an **amazing environment**. It has given me and my team, an insight into the ways in which our futures could go. In ten years we could be NASA scientists, all working towards something great! It couldn't have been more **inspiring**." Matthew Lane – Riddlesdown Collegiate

Youth Exploring Science (YES) is a non-profit organisation; our core values are based on ensuring that all young people, regardless of background, are encouraged to understand the importance of science, technology, engineering and mathematics. Our science modules will provide actual and virtual learning in 'real time', linking up with eminent scientists and field researchers from all over the world.

We are working in conjunction with **STEMNET** (Science, Technology, Engineering and Mathematics Network), and Imperial College. Full information of scientists and their projects and how these are curriculum linked is given on request. Mentors and all field staff are CRB checked and hold professional qualifications suited to the task.

Accompanying teachers go free of charge but there is a charge for the students to participate. We recommend that you check if funding is available from grant giving organisations. If you would like you and your schools students to be involved in these exciting new curricular led science modules then please contact us on 0208 399 6327. www.YEScience.org