

CERN Teacher Programmes

Inspiring the next generation of scientists

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Head CERN Teacher Programmes and Visits Service

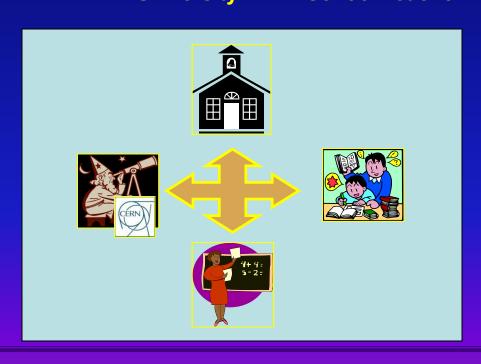


Objective of Teacher Programmes To bring modern research closer to schools

OLD

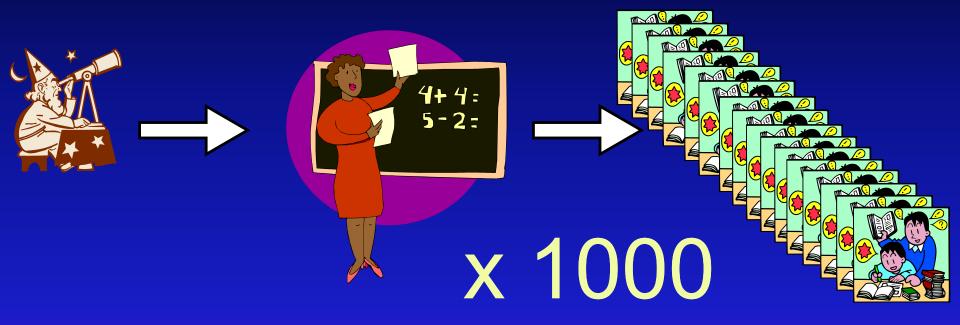


NEW





Looking for multiplicative factors



School Teacher

School Students



What are we trying to achieve with the help of physics teachers?

1: RAISE AND MAINTAIN THE INTEREST OF STUDENTS IN MODERN SCIENCE

Motivate them to continue scientific education at school Help them to better understand the physical world

Improve scientific literacy

2: INSTIL A FEELING OF MYSTERY AND DISCOVERY POTENTIAL

Motivate students to take up physics at universities

Prepare the future generation of physicists

SCIENCE IS ALIVE!

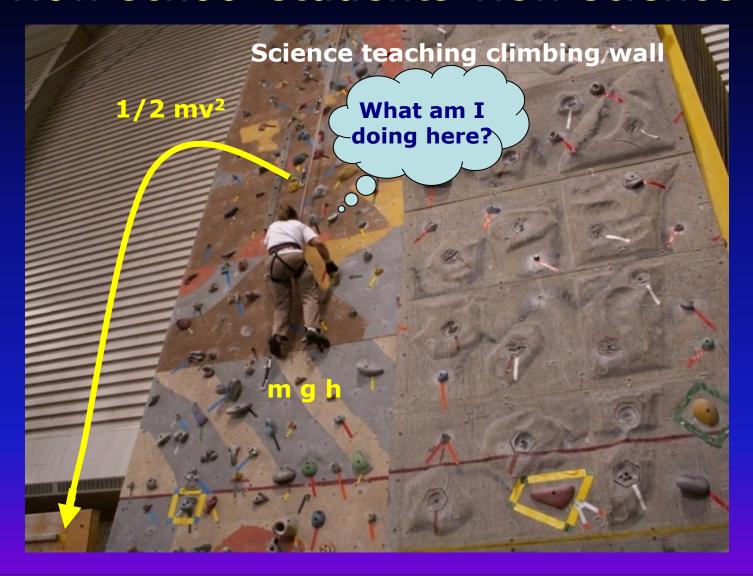


How researchers view science



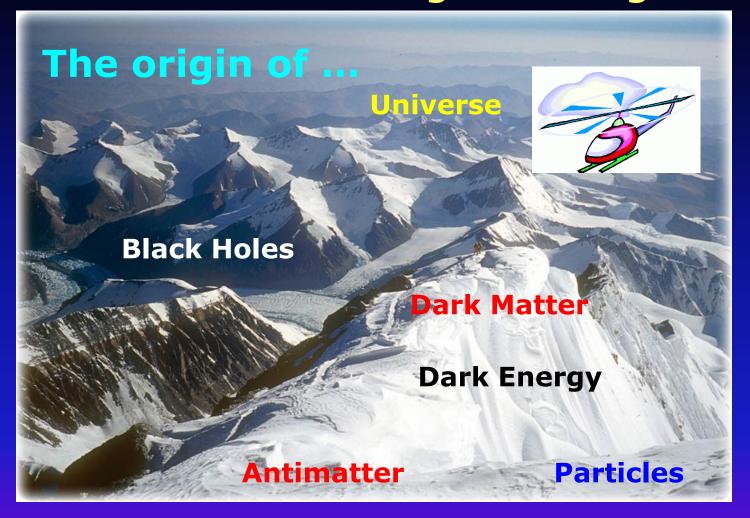


How school students view science





Take students on a sight-seeing tour ...



Link modern physics to school curriculum



Residential Teacher Programmes

Basic content

- Lectures
 - Introductions to CERN, Particle Physics, Cosmology, the LHC Experiments, Particle Accelerators, Medical Applications of Particle Physics, and the GRID
- Visits to experimental facilities
- Hands-on activities
- Working group activities
- Opportunities to meet working research physicists in a variety of informal settings.

All lectures are web archived and made publicly available



Outcome

- Newly inspired, motivated and confident teachers
- Inspire and motivate students
- Communicate with their colleagues
- Communicate with the general public
- Act as ambassadors for science, physics, particle physics, CERN

Excellent examples among the many teachers who have attended our programmes

CERN Teacher Programme Participants 1998 - 31 July 2010



UNITED KINGDOM 567

168

12

JAPAN

USA

RUSSIA

TURKEY

SPAIN

SWEDEN

SWITZERLAND

106

USTRALIA	1	IRELAND	3	MONTENEGRO	13
ZERBAIJAN	î	KENYA	1	MOZAMBIQUE	5
RAZIL	12	LATVIA	1	QATAR	1
HILE	3	LEBANON	1	ROMANIA	7
HINA	1	MACEDONIA	11	RWANDA	7
ROATIA	1	MALTA	36	SAUDI ARABIA	1
CUADOR	Ĩ	MEXICO	5	SERBIA	10
HANA	2	MONGOLIA	1	SINGAPORE	2

TENEGRO	13	SLOVENIA	21
AMBIQUE	5	SOUTH AFRICA	6
\R	1	SWAZILAND	1
ANIA	7	THAILAND	2
NDA	7	U.A.E.	1
DI ARABIA	1	942-00-00-6	0.5

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Arthur C. Clarke

Author of 2001: A Space Odyssey

- "When a distinguished but elderly scientist states that something is possible, he is almost certainly right. When he states that something is impossible, he is very probably wrong."
- "The only way of discovering the limits of the possible is to venture a little way past them into the impossible."
- "Any sufficiently advanced technology is indistinguishable from magic."

Our goal, with the help of teachers, is to bring a little of the magic of CERN into the classroom