

MATHSWORLDDUK

Maths and the making of the Modern World

And why a Museum is needed to tell this story

Prof Chris Budd FIMA, University of Bath

MATHSWORLDDUK



MATHSWORLDDUK

The Case for Mathematics and a Museum of Maths

Maths is important

Maths is the basis of science, technology and economics

The modern world would not exist without maths

With maths you can tell the future, measure risk and save lives

Maths matters

10% of UK jobs and 16% of UK Gross Value Added (£208Bn) stem directly from mathematical research [Deloitte Report]

Maths is Fun

Maths is at the heart of beauty, symmetry and music

Maths is a subject full of puzzles, mystery and surprise

MATHSWORLDDUK

However this view is very different from the usual perception of mathematics in the public, and the media which maintains that

Mathematics is completely useless

Mathematics is boring

Mathematicians are evil souless geeks



A lack of appreciation of mathematics is potentially very damaging to the future of UK industry, science and technology and limits the future choices for our young people [CBI Report]

MATHSWORLDDUK

We need to reverse this trend, and this is the ambition for MathsWorldUK

But at present there is no dedicated place that people can go to appreciate fun history and applications of a subject that underpins so much of modern society

Our Vision:

We want to make it possible for everyone to gain access to mathematics, enjoy the activity of doing mathematics and appreciate the role of maths in the world

MATHSWORLDDUK

The museum of mathematics will be a dedicated building comprising:

Interactive mathematics based displays which directly engage the visitor in ways that suit them best

A permanent facility for outreach and public engagement

Educational resources for schools

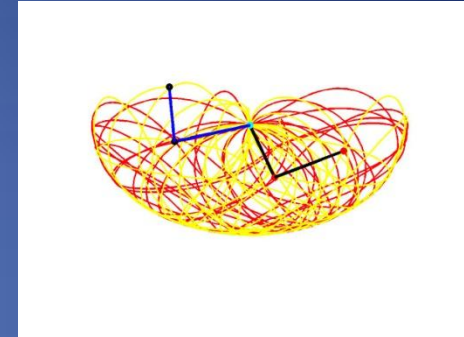


MATHSWORLDDUK

What will you find in the museum?

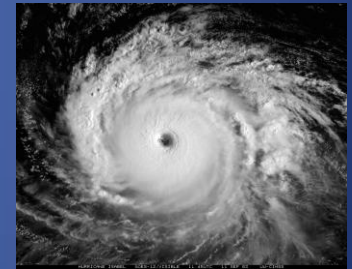
Zones for mathematical ideas:

Number, shape, infinity, risk, symmetry, change



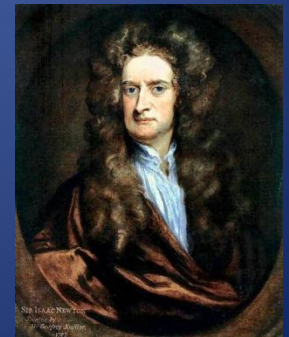
Zones for the applications of maths:

Sport, medicine, computers, architecture, climate



Zones for people and stories in mathematics

Lots and lots of hands on activities



MATHSWORLDDUK



But a museum cannot just be a set of static exhibits

Place where new and evolving ideas can be demonstrated and shared

Place which engages with everyone

Place where academics, industrialists, teachers, students, policy makers, journalists can all meet

Place which inspires the imagination

Place which shows the way for the future

Place which generates awe, wonder and sense of fun

Q. Is this really possible?

MATHSWORLDUK

Yes!! This is the reaction we aim to achieve:



Hands on maths activity at 'Bath Taps Into Science'

MATHSWORLDUK



Teaching geometry through dancing at 'Bath Taps Into Science'

MATHSWORLDUK

Exhibits at other maths museums around the world



MATHSWORLDDUK

More exhibits at other maths museums around the world



MATHSWORLDUK



Maths really can engage a large audience: Big Bang Fair
Children come and stay for a long time!



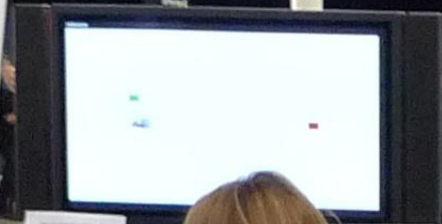


UWE Bristol University of the West of England

How Does a Jumbo Jet Fly?

UWE Bristol University of the West of England

Dynamics What's it all about?



the
is
picture

ICE

THE GET UP

MATHSWORLDDUK



MATHSWORLDUK

Now to make **MATHSWORLDUK** happen!



Let's not leave it to chance!