



LANGUAGE LEVEL: **Advanced**

TV: **3 x 25 minutes**

AV NO: **100728/tv1-3**

STUDENT'S BOOK: **44-45**

## Contents

A series of three programmes that look at the science of some activities people get involved in. Find out how a forensic scientist collects evidence to solve a crime; how park rides give you an adrenalin buzz but still keep you safe; finally, what forces are involved in a speeding motorcycle. Real science looks at science in context which will motivate students and inspire their imagination.

### Programme:

#### 1. Incriminating Evidence

A house burglary in East London leads to a serious stabbing incident. Incriminating evidence shows how the scene of the crime unit gathers forensic evidence and how a tooth pick on a Swiss Army knife, used in the stabbing, helps to nail the criminals.

#### 2. Roller Coaster

Every year around 600 million people flock to theme parks all over the world with one thing in mind. Terror. Roller Coaster examines how designers, engineers and scientists create bigger and scarier rides to give the ultimate adrenaline buzz.

#### 3. Wannabe biker

Sheila Hollywood has decided she wants to give up her day job and look for a career with motor bikes. We follow her big adventure into the world of motor bikes and discover why some of the stunt riders she meets think of themselves as Applied Physicists!

### Purpose

- To use English to learn more about science in context
- scientific enquiry and important landmarks in the history of science

### Ideas for using the programme

Scripts and wordlists are available on-line. Review the word-lists, but watch the programme without the scripts. You can later refer to the scripts when resolving language problems. Classroom activities for each episode, including teachers' notes, are included on the Channel 4 Learning website. These ideas could be used as "warmers".

[www.channel4learning.net/support/programme-notes/netnotes/sub/subid333.htm](http://www.channel4learning.net/support/programme-notes/netnotes/sub/subid333.htm)

[www.channel4learning.net/support/programme-notes/netnotes/sub/subid421.htm](http://www.channel4learning.net/support/programme-notes/netnotes/sub/subid421.htm)

### LEAD-IN

To begin the lesson:

#### 1. Incriminating Evidence

Forensic science has changed a lot since Sherlock Holmes. Do you think you would enjoy the work of a detective?

What activities does a detective have to do in order to catch the criminal? Think of your favourite TV detective.

#### 2. Roller Coaster

Do you enjoy "white-knuckle" rides? What about dangerous sports?

Why do you think so many people get a "buzz" from these activities?

#### 3. Wannabe biker

Many sub-cultures are based on bikes (Hell's Angels). Do you think motor bikes have a cool image? Explain.

Would you prefer to drive a car or a motorbike?

Do you think that bikes are dangerous? Explain.

### AFTERWARDS

Ideas for follow-up discussion.

- What do you think are the three most important or interesting inventions since 1850?
- Do you think modern technology reduces or increases stress? Explain.

### Tips

For fun activities for which you can use in the classroom, the Discovery Channel website has a forensic science lesson plan –Who did it?.

[school.discovery.com/lessonplans/programs/whodidit/](http://school.discovery.com/lessonplans/programs/whodidit/)

For information Roller coaster for kids, visit How Stuff Works

[science.howstuffworks.com/roller-coaster.htm](http://science.howstuffworks.com/roller-coaster.htm)

The Wikipedia entry is excellent, but would need adapting:

[en.wikipedia.org/wiki/Roller\\_coaster](http://en.wikipedia.org/wiki/Roller_coaster)

### CREDITS

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