



### Examination Preparation

In your summer examination you will find a question about a pre- released theme, this year it is **SPEED CAMERAS**

This revision pack will help you to prepare for both the longer answer 'design' questions and the question on the pre-released theme.

You will need to research Road speed cameras:

- Operating principles, advantages and disadvantages of the following speed camera types:  
Gatso  
Truvelo  
Specs/SVDD  
Laser guns.
- Identification of accident black spots using GPS (I think this means that your GPS in car navigation system, warns you...DS.)
- Advantages of infra-red over visible light illumination for Road speed camera photography.
- Alternatives to road speed cameras.
- Power sources used for electronic road warning signs.

The following websites are a good source of information on this:

<http://www.speedcamerasuk.com/>

<http://www.ukspeedcameras.co.uk/>

<http://en.wikipedia.org/wiki/Gatso>

<http://en.wikipedia.org/wiki/Truvelo>

<http://en.wikipedia.org/wiki/Gps>

There is a sample question on last year's themed question to be found here (Question 2)

[http://www.ocr.org.uk/download/pp\\_08\\_jun/ocr\\_31460\\_pp\\_08\\_jun\\_l\\_gcse\\_1953\\_04.pdf](http://www.ocr.org.uk/download/pp_08_jun/ocr_31460_pp_08_jun_l_gcse_1953_04.pdf)

And the answers are here.

[http://www.ocr.org.uk/download/ms\\_08/ocr\\_16624\\_ms\\_08\\_jun.pdf](http://www.ocr.org.uk/download/ms_08/ocr_16624_ms_08_jun.pdf)

(You need to look in question 4)

# LINKS

And finally, these are some other useful links to revision sites which you can look at to help you with your subject knowledge.... (Don't forget your revision guide too)

## ALL TECHNOLOGY SUBJECTS

[www.technologystudent.com](http://www.technologystudent.com)

[www.designandtech.com](http://www.designandtech.com) (most comprehensive Design and Technology Website there is)

[www.techitout.com](http://www.techitout.com)

[www.dtonline.org/](http://www.dtonline.org/) (good basic information – definitions etc)

[www.bbc.co.uk/schools/gcsebitesize/design/](http://www.bbc.co.uk/schools/gcsebitesize/design/) (revision materials and tests)

[www.design-technology.info/home.htm](http://www.design-technology.info/home.htm) (colourful and detailed website)

## ERGONOMICS

<http://www.ergonomics.org.uk/ergonomics.htm>

<http://www.ergonomics4schools.com/index.htm> (ergonomics in student speak)

## ANTHROPOMETRICS

<http://www.ergonomics4schools.com/lzone/anthropometry.htm> (anthropometrics in student speak)

## MECHANISMS

<http://www.flying-pig.co.uk/>

<http://www.cabaret.co.uk/education/educat1.htm>

## ELECTRONICS

[http://www.timhunkin.com/control/f\\_engineering\\_index.htm](http://www.timhunkin.com/control/f_engineering_index.htm) Lots of good stuff here

[http://www.iupui.edu/~ecet360/lesson14\\_wave/wavenotes.html](http://www.iupui.edu/~ecet360/lesson14_wave/wavenotes.html) Wave soldering

<http://www.kpsec.freeuk.com/index.htm> Electronics club, good resources.

<http://www.eleinmec.com/index.asp> Electronics in Meccano, how to control stuff.

<http://www.waynekerrtest.com/> Industrial test equipment.

<http://www.educyclopedia.be/electronics/electronicaopening.htm> Lots of circuits and how they work, perhaps a bit advanced.

And a couple of “fun” sites, but that doesn't mean that there is nothing to be learnt from them, if only some health and safety!

<http://www.electricstuff.co.uk/>

<http://www.bigclive.com/>

GOOD LUCK!