Crocodile Physics Essay, Research Paper

Crocodile Physics

Crocodile Physics is like a well-stocked physics lab where you can experiment to

your heart?s content. Covering many syllabus topics, here is the hardware flattened for

the small screen. There are masses, trolleys, lenses and electronic components to

assemble, experiment and take measurements with. You can swing pendulums, change

gravity, change angle of ramps to learn about forces. Excellent are the optics tools which

let you split light into its colours with a prism and see how fibre optics transmit light. A

section on eye defects, where you increase the focal length of a spectacle lens and see

what that does to the light rays will make an awesome teaching tool. Though it comes

with worksheets, those with time to spare can use it to create impressive interactive

tutorials.

Crocodile Physics has been developed from Crocodile Clips 3, the acclaimed

High School Physics simulator used in over 35 countries and recommended by

governments worldwide. It’s a simulator for Middle and High school and college physics

courses.

Crocodile Physics includes a powerful optics simulator, with a range of

components including lenses, prisms, mirrors and light sources.You can set the

wavelength of the light being emitted from your source, and choose parallel beams,

diverging beams or rays. You can also set the dimensions of the source.

Crocodile Physics contains a full range of electrical components. Every school

subject area is covered: from the basic batteries, bulbs and switches – which are also

given in pictorial form, to help understanding of the first principles – to more advanced

logic gates, integrated circuits and semiconductors.

A vast component library gives you the freedom to experiment in a way that suits

your teaching, and allows interested students to explore the subject more deeply. One of

the key features which marks Crocodile Physics out from other teaching software is the

Integrated Multimedia Editor. This allows you to alter our activities to suit your needs, or

to write your own from scratch.

The simulation is mathematically accurate, allowing you to test designs and

explore the laws of Physics. Most component values can be changed at will. Crocodile

Physics comes complete with over 100 interactive on-screen lessons, covering a range of

subjects in electricity, electronics, optics, mechanics, dynamics and sound. They combine

full simulation with information, questions and answers. It’s easy to integrate them into

Not available