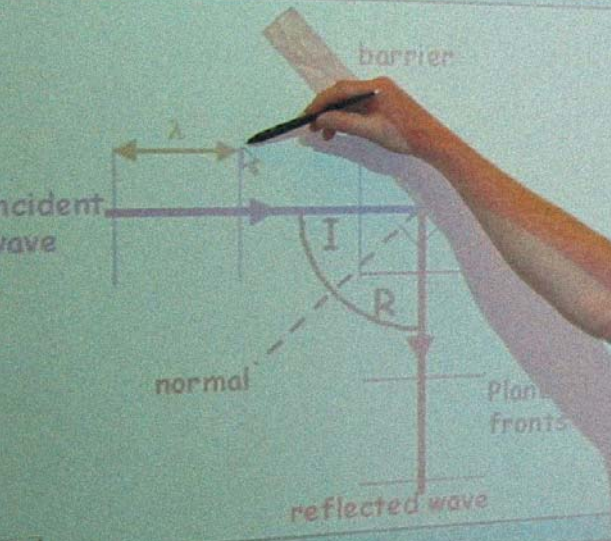


Case Study
ref:P.Whitchurch.10

Reflection of Waves

When waves move towards a solid barrier, they will bounce off at the same angle they hit the barrier at
angle of incidence I = angle of reflection R



On a reflective note

Plane or straight waves reflect off a straight barrier as plane waves with no change in wavelength or wave velocity.

Whitchurch Secondary School

“the versatility of the ACTIVstudio software clinched our decision”

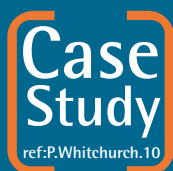
Promethean Help

“Enabling teachers to take pupils a step further in terms of interactivity.”

- Step further in terms of interactivity
- Inspire children with the technology
- Supported by all teachers



Whitchurch Secondary School



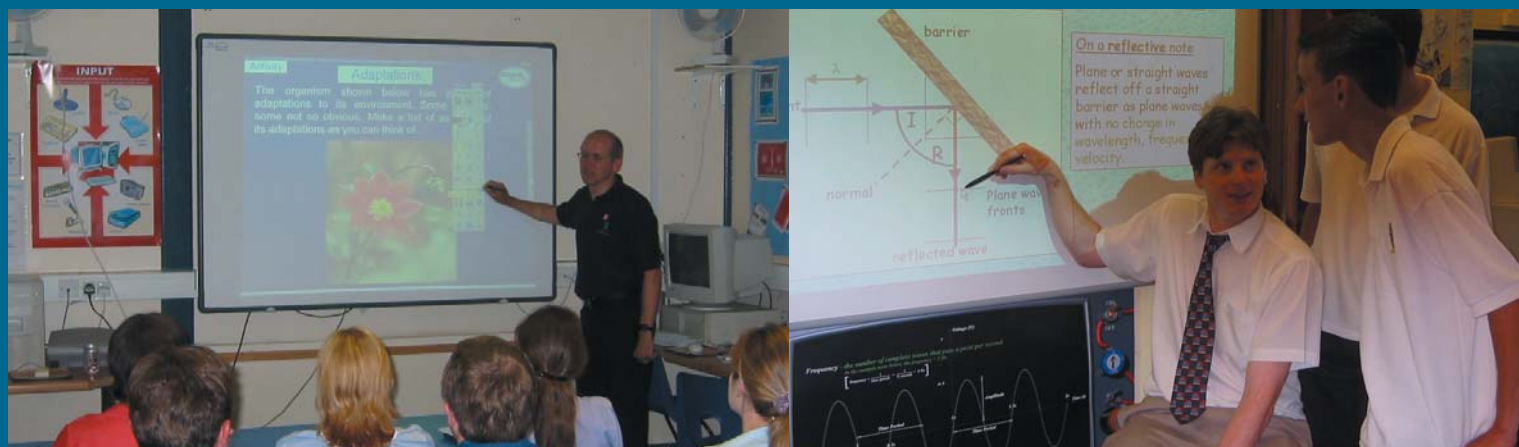
The Solution

Gary and his colleagues undertook extensive research, reviewing a number of product demonstrations. Eggbuckland College, Plymouth, which had been using Promethean boards for a while recommended them to Gary and a subsequent Promethean demonstration helped them make the final decision. Gary explains: "It was the versatility of the ACTIVstudio software that clinched our decision, although there were a lot of supporting factors."

The first boards purchased were installed in Geography, Science, Language and ICT departments. The installation of the boards was well received by pupils and staff alike.

Following the success of the first four boards, pupils on the School Council put in a request that more Promethean ACTIVboards be invested in. Their requests were readily supported by all teachers at the school and since then Promethean ACTIVboards have been installed in every department, and the school boasts a total of 28 boards.

Gary continues: "When Promethean ACTIVboard technology launched into the education market it enabled us to move on from demonstrating and take the pupils a step further in terms of interactivity."



Benefits

Enthusiasm, both to teach and to learn has tangibly grown in the school as a direct result of the use of Promethean ACTIVboards. Gary describes the changed atmosphere: "It is encouraging to see the children eagerly interact and we can actually get them involved. Their reaction is just amazing, even the subjects that might traditionally be difficult to make dynamic are brought alive by Promethean ACTIVboards. I can recall occasions when I have seen classrooms brimming over with excitement from pupils being able to engage in such interactive learning."

Staff are equally delighted at being able to inspire children with the technology. When Geography teacher, Ged Patterson and Science teacher, Mark Gambold saw what the boards were capable of instilling in children, they took it upon themselves to become fully immersed in the interactive technology and have now been drafted in by the County to act as Interactive Whiteboard teacher trainers. With Ged and Mark as Promethean accredited trainers, Whitchurch is able to benefit from in-house ICT training, which leads to direct cost-savings for the school. In addition to saving money, the school also benefits because they are asked to pilot new digital



software before general release.

As leaders in innovative teaching, Whitchurch has become a source of guidance, for teaching institutions both in the UK and overseas. A recent visit from South African teachers saw them demonstrating how Promethean ACTIVboards can be used to deliver engaging lessons whilst at the same time enabling teachers to plan and store lessons.

The Future

In the future Whitchurch plans to further invest in Promethean technology, Gary explains: "At present, we see the installation

of ACTIVboards as priority but once we have an ACTIVboard in every classroom, we will consider investing in remote peripherals".

Current plans are to submit an application to become a Promethean Centre of Excellence. As a Local Centre of Excellence Whitchurch would be the main point of contact for users who wish to receive training or assessment. Their key role being to train, tutor and assess new users as well as providing a focus for the development of best practice in the use of Promethean ACTIVboards and associated software.

About Whitchurch Secondary School

Back in 2000, Whitchurch School was already established as the largest secondary school in Wales and soon became recognized as one of the most innovative through installation of a number of interactive whiteboards into classrooms throughout the school.

The school initially gained funding for interactive whiteboards after Gary Morgan, Assistant Head Teacher and ICT co-ordinator at Whitchurch won ICT Teacher of the Year Award 2000. Gary had been investigating the potential use of whiteboards for some time, and investing the prize money in an initial experimental purchase seemed an obvious decision. There were sufficient funds available from the school budget to enable the purchase of a total of four boards and the only task remaining was to decide which brand of board to choose.

“About Promethean”

Promethean is dedicated to the development and supply of ICT solutions as teaching tools in the classroom to accelerate learning gains across the whole curriculum.

Promethean systems create an interactive teaching environment that enables multimedia delivery to whole groups.

A UK manufacturer, Promethean offers full installation, full system training, hot-line support

by telephone and e-mail, in-field support and repair. We provide the complete solution to education, distance and flexible learning, collaborative working and training.

Solutions include:

ACTIVboard Interactive Whiteboards, ACTIVstudio multimedia software and ACTIVision video-conferencing systems.

Wide format displays for data and video and all encompassing solutions for presentations.



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