

---

## Teacher Support Materials: Unit 16 Working Waves

---

### **Possible (generic) ideas for effective teaching and learning for the externally tested unit:**

Experience has suggested that bolt-on experiences that have no links elsewhere should be avoided. A coherent framework should be in place.

This unit is assessed through an external examination – however, the method of delivery can still be student-centred if desired.

Topics to be studied for this unit could be linked with Unit 8: *Investigating the Scientist's Work*, and investigative work could be focused on one of the topics from 16.2: *What You Need to Learn*.

Work required for 16.2.5: *The Work of Radiologists – X and Gamma Ray Imaging and Therapy*, follows on from the work studied in Unit 3: *Monitoring the Activity of the Human Body*.

### **Students could work on assignments and activities that include:**

- Visits and research
- Creating and developing ideas
- Interacting with the public
- Listening to guest speakers
- Researching into related topics and links with local hospital trusts.

It is suggested that a mixture of teaching and learning styles are used to suit the situation.

### **Whole Class Delivery:**

- Start a task/assignment
- Introduce new concepts
- Deliver important knowledge
- Discuss an idea
- Problems
- Start and end to lesson.

### **One-to-one/Group Activities:**

- Independent and active learning activities
- Not text book and hand out driven.

### **Structured Active Research:**

- Outcomes will support students in gaining organised and logical knowledge and understanding to use in the external tests.