



**Science Revised Syllabus  
Junior Certificate  
Higher Level**

**Past Exam Questions on  
P Sound**

**Q9 Part (b) 2013**

(b)(i) What are echoes? (3)

---

(ii) A man stood 250 metres from a wall and fired a starting pistol.  
1.5 seconds later he heard the echo of the shot.  
Use this data to calculate the speed of sound in air. (6)

---

---

---

---

**Q7 Part (f) 2011**

(f) Describe a simple experiment to show that sound is a form of energy.

Describe \_\_\_\_\_  
\_\_\_\_\_

**Q8 Part (c) 2010**

(c) Why is it that if you are viewing a fireworks display from a distance that you *see the fireworks explode before you hear the sound* of the explosions? (6)

---

**Q7 Part (g) 2009**

(g) What causes an *echo*?

What? \_\_\_\_\_

**Q7 Part (e) 2007**

- (e) Thunder and lightning occur during electric storms. Explain why we *see* the lightning *before* we *hear* the thunder.

Why? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Q9 Part (c) 2007**

- (c) Describe, using a labelled diagram in the box, an investigation you could carry out to show that *sound requires a medium* in which to travel. (12)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Q7 Part (b) 2006**

- (b) How are *echoes* produced?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_