**Bitesize online** *Click the first link to complete the following tutorial and questions. Then click on the second link to do the interactive activity*.

What are Waves? (page 1)

1. What is a wave?

2. Play the animation. Describe what you see.

3. What are two examples of waves that require a medium?

4. What are four examples of waves that do not require a medium?

Longitudinal and Transverse (page 2)

1. What are oscillations?

2. True or False: Electromagnetic waves travel at different speeds.

3. Play the two animations. How do they differ?

Amplitude, wavelength and frequency (page 3)

1. What is the amplitude of a wave?

2. What is the wavelength?

3. What is the frequency of a wave?

4. Radio stations often broadcast at what frequency?

5. Play the animation, making changes to all 3 to see how each affect the wave.

Wave speed (page 4)

1. What is the equation for determining wave speed? (Write what each variable represents)

2. Draw the formula triangle below, then write all three formula conversions.

3, Complete the animation.