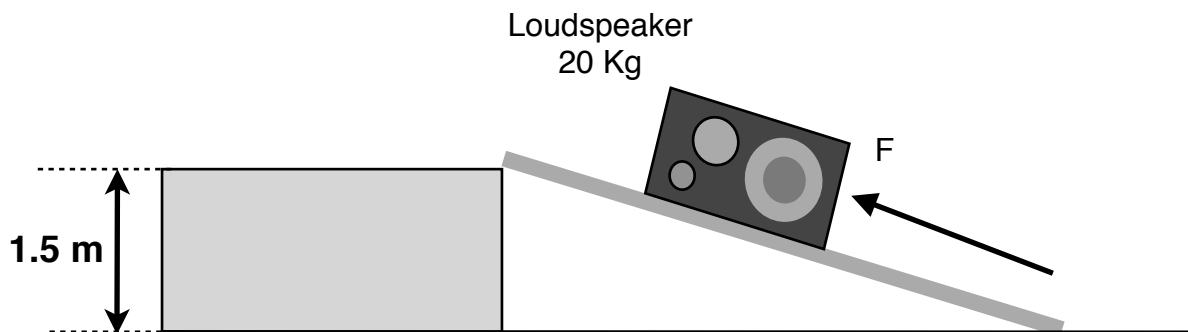


Work and Power

1 The diagram shows a loudspeaker being pushed up a slope onto a platform.



1 (a) Work is done to move the speaker up the slope. What does the term 'work' mean?

.....
.....

(1 mark)

1 (b) The weight of the speaker is 200 N. Calculate the work done to lift the loudspeaker a vertical distance of 1.5 m.

Show your working clearly.

.....
.....
.....

Work done = Joules
(2 marks)

1 (c) Two smaller speakers were lifted onto the stage using the same slope. The work done to lift **each** speaker was 45 J and took 10 seconds **per speaker**.

What was the **total** power required to lift the two speakers? Give the correct unit.
Show your working clearly.

.....
.....
.....

Power =
(3 marks)

(Total 6 marks)

Login or subscribe to my-GCSEscience.com to see the answers and commentary.