

Name \_\_\_\_\_ answers \_\_\_\_\_

- a) Using the “electromechanical analogy” list two pairs of analogous quantities between mechanics and electricity.

Mechanics	Electricity
Force	voltage
velocity	current

See other aspects of the electromechanical analogy on worksheet from Friday 9.

- b) What property of room acoustics is referred to as “warmth” and how can it be increased?

“Warmth” in room acoustics is caused by a relatively long reverberation time for low frequencies relative to high frequencies (see p219 in chapter 8).

To increase warmth you need to change the relative absorption of the surfaces in a room so that they reflect more (and absorb less) at low frequency. Some materials (like plywood) absorb more at low frequency, but many materials absorb less at low frequency (such as carpet) and so will increase acoustic warmth. Take a look at the table on page 227 if you want to see some examples.