Q35. (a) Pot H. The eaves have a bigger exposed surface area. There is more stomata hence more water is  
lost. More water vapour condensed Into the cooler Inner surface of the cone,

ib) Tree x, The feaves have a smalier exposed surface area. There are fewer stomata, hence the rate  
of trenspiration decreases.

(c} Tree ¥. There are smaiier gaps between the leaves compared to that of Tree X, thus wind cannot  
blow through Tree ¥ as easily. ond hence the branches are more likely to break.

Q36. {aj The hot weter evaporated to become water vapmy, which condensed on the cooler underside of  
the plastic sheet  
{b} Increase, Water would evaporate faster and more water vapour would condense on the cooler  
‘underside of the plastic sheet.

Q37. {a} 2000 units.

Qo38. (a) (f) Use the same wooden block as sot-up A.

{ii} Change the glass susface to a metal surface.

{>} «Gravity.  
fe} Biock B. The off reduced the friction between block B and the wooden surface, thus less force is



039. {aj} Gravitational potential -> Kinetic > Sound

{b) Cube B. ft has a greater mass than abe A, thus 8 possess more gravitational potential energy,  
which fs converted to more kinetic energy when it falls and hence more sound energy when It lands.



(b} When someone walks pass the light sensor, the fight is blocked as the person Is opaque and the |  
sensor detects 0 units of light. By recording the number of times the sensor detects no fight, the number  
of people walking past the corridor can be detected.







ic) Graph A, If there is more carbon dioxide, more heat would be trapped in the Earth’s atmosphere  
and thus the avesage temperature of the Earth Increases.