

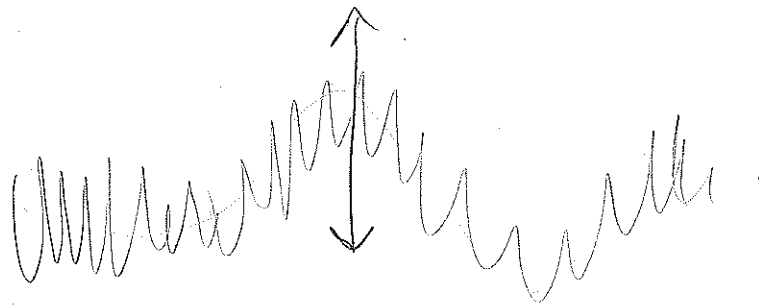
By 10<sup>th</sup> March.

### Project Charter

<b>School</b> Waycroft	<b>Year Group(s) / Numbers of students or pupils</b> Yr 4
<b>Engineers /businesses contributing to the project(s)</b> Fabrice Filipe (Filipe is not on the list. He works for Toshiba (filipe.ramos@toshiba-trel.com)) Ray Hamish Tom	
<b>School Staff contributing to the project</b> Joanne Horwood	
<b>Vision statement for the project. "When this project is completed we will see....."</b> Understanding of insulation & energy saving Practical experiment on model with varying degrees of insulation & window openings. Heat.	

# Heat / Energy

Slinky - movement of atoms - frequency / amplitude.



↓  
energy  
&  
temperature.

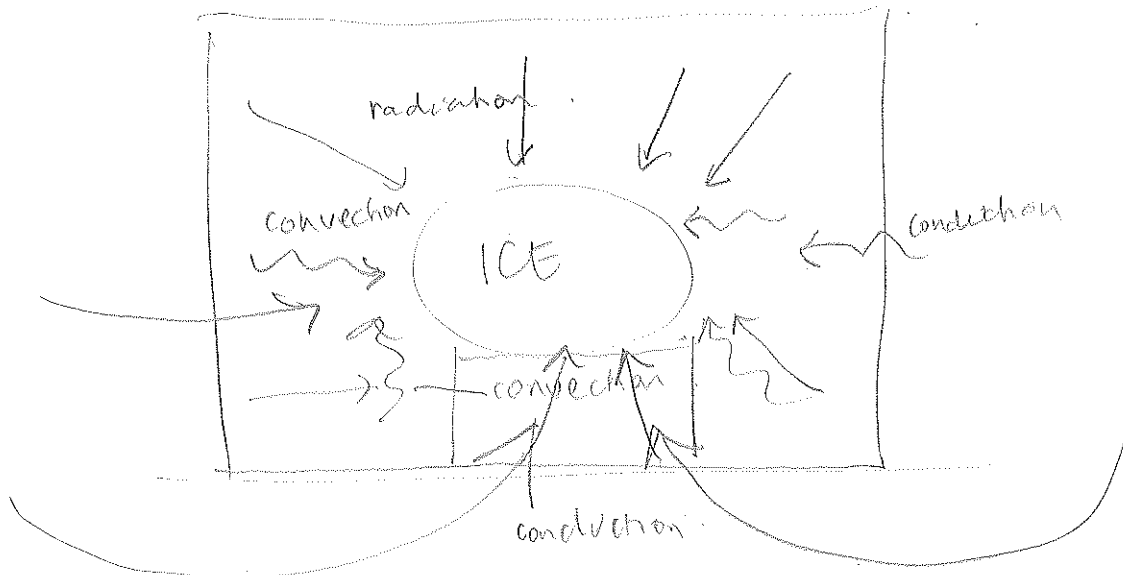
Conservation law : Energy not created not destroyed  
It just changes form.

Conduction  
↓  
contact

Convection  
↓  
movement  
of  
matter

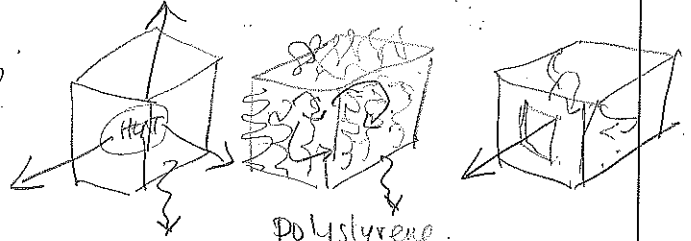
Radiation  
↓  
through  
electromagnetic  
waves.

heat loss / heat gain.



**Goal 1 - What will we produce for the School setting?**

- 6 cardboard models with different insulation material
- + thermal monitors devices logging information.
- heat source hot water? ice?



Completion Date

Term 6. 11th

soil?  
paper?  
cork?

Polystyrene.  
rock wool  
sheep wool.  
Hay/straw.

**Who leads on the work in the school setting? – (The Leader drives the project and will feedback progress)**

Joanne

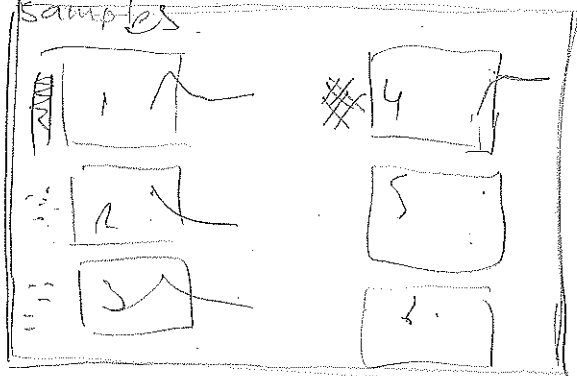
**Who is supporting this?**

Fabrice

/ Filipe ⇒ logging + electronic + measurement.

**Goal 2 - What will we produce that works in the Museum setting?**

- Models - +
- Output log. of temperature.
  - Material samples.
  - Experiment description.



**Who leads on the work for the museum setting?**

TBD

**Who is supporting this?**

Jo.

**Quick wins** – other engineering activities we think that could be used within our project and who to contact.

- Visit Somerset college - to see various sustainable materials eg cob / straw construction
- Engineers without Borders - projects presentations on different shelters in other parts of world (slum) Hamish? Anna?

Who leads on this?

? To be discussed if viable at all.

Next steps		
What	Who	By When
Project t team contact details and preferred methods and times are shared.	All	End of meeting on 5 <sup>th</sup> March
Email copy of project charter To - hugh@myfuturemychoice.co.uk	Fabrice	10 <sup>th</sup> march