

WALT - Find thermal insulators and
conductors. Date



Revisit, remember and respond



Which is the odd one out?

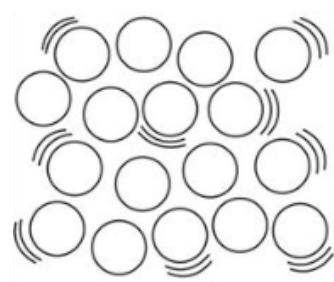
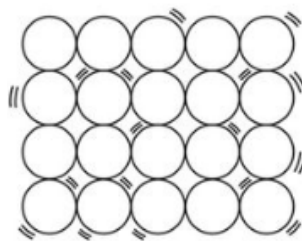
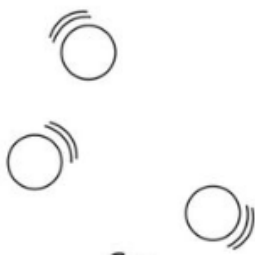


There are no wrong answers, but defend your
opinion.



Revisit, remember and respond!

Which atomic structure fits a **solid**, **liquid** and **gas**?



<https://www.bbc.co.uk/bitesize/clips/zpbvr82>



This clip explains all!

What do the following words mean?

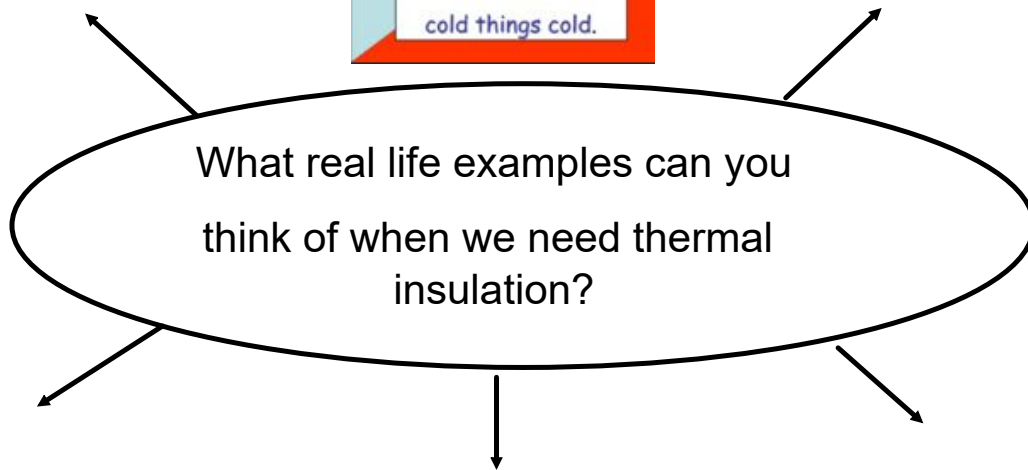
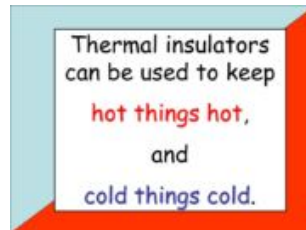
Insulation (Insulate) -

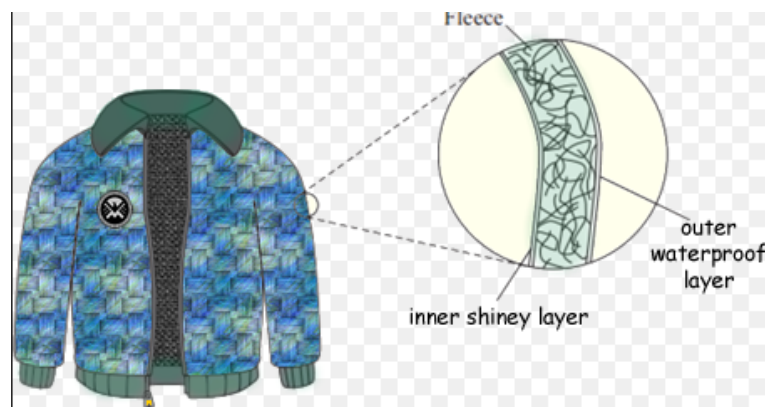
Conduction (Conduct) -

Write your class definition above and see how well it matches to the ones below. Then copy the real ones into your book.

Insulation is the material or technique used to reduce the rate at which heat is transferred.

Conduction in science is when energy moves from one place to another place by touch. Electrical conduction and heat conduction are the two most important kinds.





Why do you think a jacket/fabric would be good for thermal insulation? **Tell your partner**

Investigation Question -

Which material will insulate the ice cube the best?

We are going to plan and conduct an experiment which tests how well we can insulate an ice cube using different materials.

Control (don't touch)



Example

<https://www.youtube.com/watch?v=pbJnLf3G-ao>

Experiment Steps

Equipment List -

Pick 4 materials to use as your insulators.

Prediction - What do you think will happen?

I think will be the best at insulating the ice cube because...

I will know this is true because....

Method

Numbered instructions.

Diagram

Labelled Picture

Variables

What will you change?

What will you keep the same?

How will you keep it a fair test?

I will keep it a fair test by

Conclusion

Discuss your findings

	Good Conductors	Good insulators
Thermal	<p>Metals e.g. copper, silver, gold, iron, steel, aluminum</p> 	<p>plastic wood rubber fabric polystyrene</p> 

Discuss with a partner - What examples can you think of where these are good for being a thermal conductor or insulator?