

Physics - Key Stage 3 - Energy

Lesson 5: Conduction

Mrs Evans



Independent Practice: fill the gaps

1. **Use** 5 g of **vaseline**, to stick a 2 g _____ **?** _____ **?** _____ to the end of each **rod**
2. **Set** up two _____ **?** _____ **?** _____ safely (unlit)
3. **Set** up a rod 10 _____ **?** _____ above each Bunsen burner, using a **clamp stand**
4. **Light** the Bunsen burners and start the _____ **?** _____
5. _____ **?** _____ the time when the drawing pin drops off each rod (iron and glass)



Investigation: which **rod** conducts energy the **fastest**?

Independent variable - the one you change

Dependent variable - the one you observe

Control variable - the one you keep the same



Analysing our results: calculating a mean

Rod type	Time taken for the pin to drop (s)				Average (mean)
	Attempt 1	Attempt 2	Attempt 3	Attempt 4	
Iron	15	16	14	15	
Glass	82	78	84	76	

To find a mean: add up all your values and divide by the number of values you added



Independent Practice:

write a conclusion using the scaffold

The ____?____ rod transferred the energy fastest by conduction and is a good thermal ____?_____

I know this because ____ ? _____

The time taken for the drawing pin to drop from this rod was ____ ? ____ whereas the ____ ? ____ rod had a time of ____ ? _____

During the investigation, the ____ ? ____ energy store of the particles was transferred to other particles along the rod and to the vaseline causing it to melt and the drawing pin to drop.

Rod type	Time taken for the pin to drop (s)
	Average (mean)
Iron	15
Glass	80

