Modelling

Example

The point A has the coordinates (2,5)

We try: Step by step

The point A has the coordinates (2,5)

Now try them....

The point A has the coordinates (3,8)

The point B has the coordinates (7,-2)

Find the equation of the perpendicular bisector to AB

Review your method

1) talk to your neighbour about what you did

2) do you need to change anything in your steps?

Modelling

Flue

Mental multiplication methods...

How can I calculate 2.5 × 20 in my head?

THINK PAIR SHARE

Using factors

How else can I write x 20?

Double and Halve

2.5×20

×2 ÷2

Reasoning

We have just looked at two methods for mental multiplication

DISCUSS

Using factors and **Double and Halve**

1) Which did you prefer? Why?

2) Can you think of any questions where one method would be better than the other? Why?

QUICK CHECK

Fluency

1.5 × 20

Using factors

Double and Halve

Fluency

Task

Complete these multiplications. For each one think carefully which method would be most efficient

a) 20 × 6

b) 1.5 x 40

c) 3.2 x 20

f) 0.5 × 46

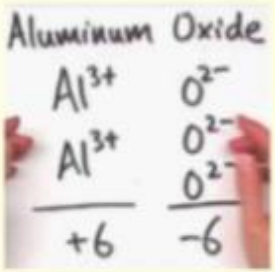
g) 22 × 0.5

h) 6.1 x 30

Modelling

Comparing Methods - Student Reflections

A. Balancing charges



B. Swap and drop

- Did you prefer Method A or Method B for working out the answer? A

- Why did you prefer this method?

Easier to understand the science behind it and for me that made it easier to understand why we were doing it, and how to do it.

- Would you use the same method again in the future or would you try something different? Why/ why not?

I would use method A

- If you had to choose your least preferred method, what 1 or 2 things would you do differently to try and make you feel more comfortable using it?

Learn why we swap and drop and the science behind it rather than swapping two numbers

Modelling Metacognitive Talk

EXTERNAL	PRIVATE	INTERNAL
		
Students' metacognitive talk is directed by an external agent, such as the teacher.	Students will internalise the prompts of the external agent and speak out loud.	Students' self-talk becomes silent and internal.