



Microscale precipitation and neutralisation reactions

Integrated instructions



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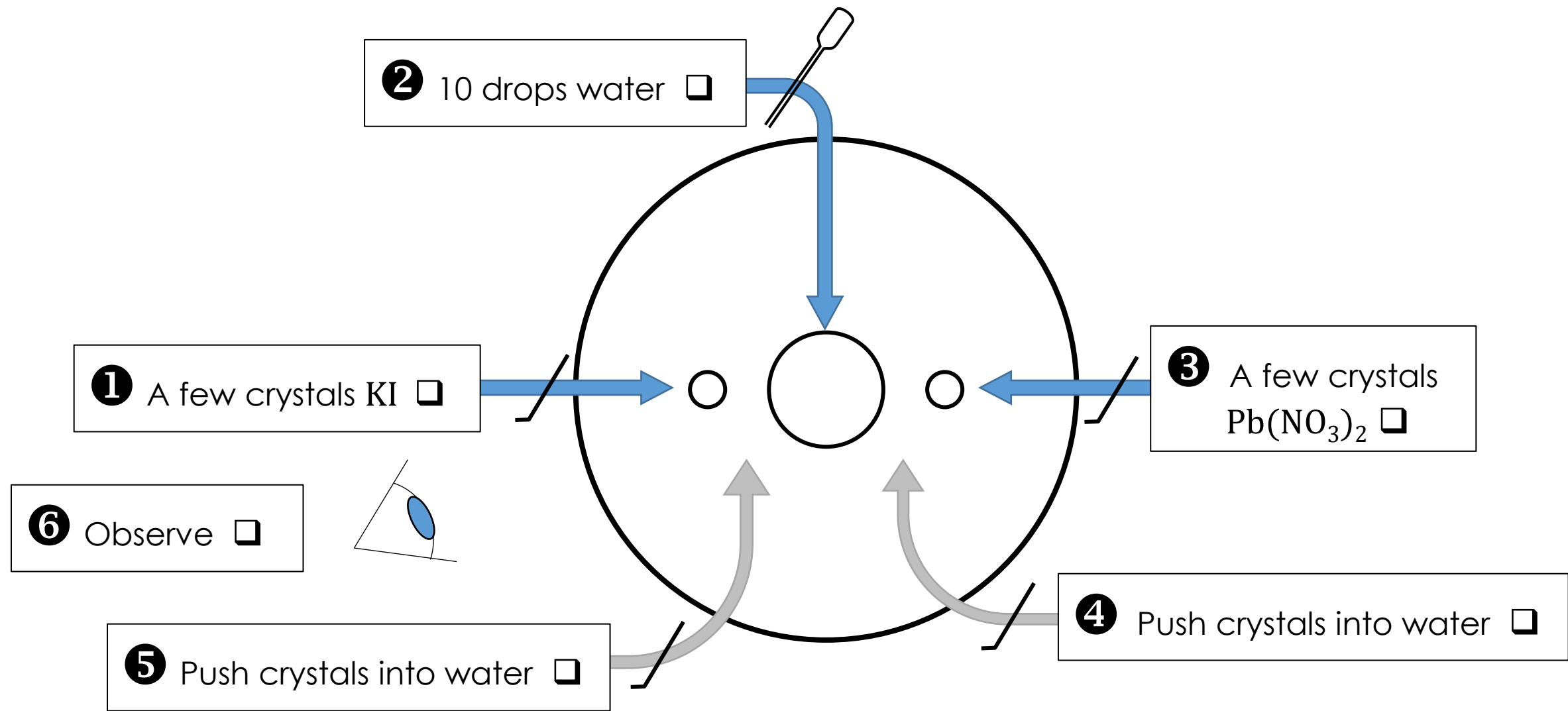
Integrated instructions

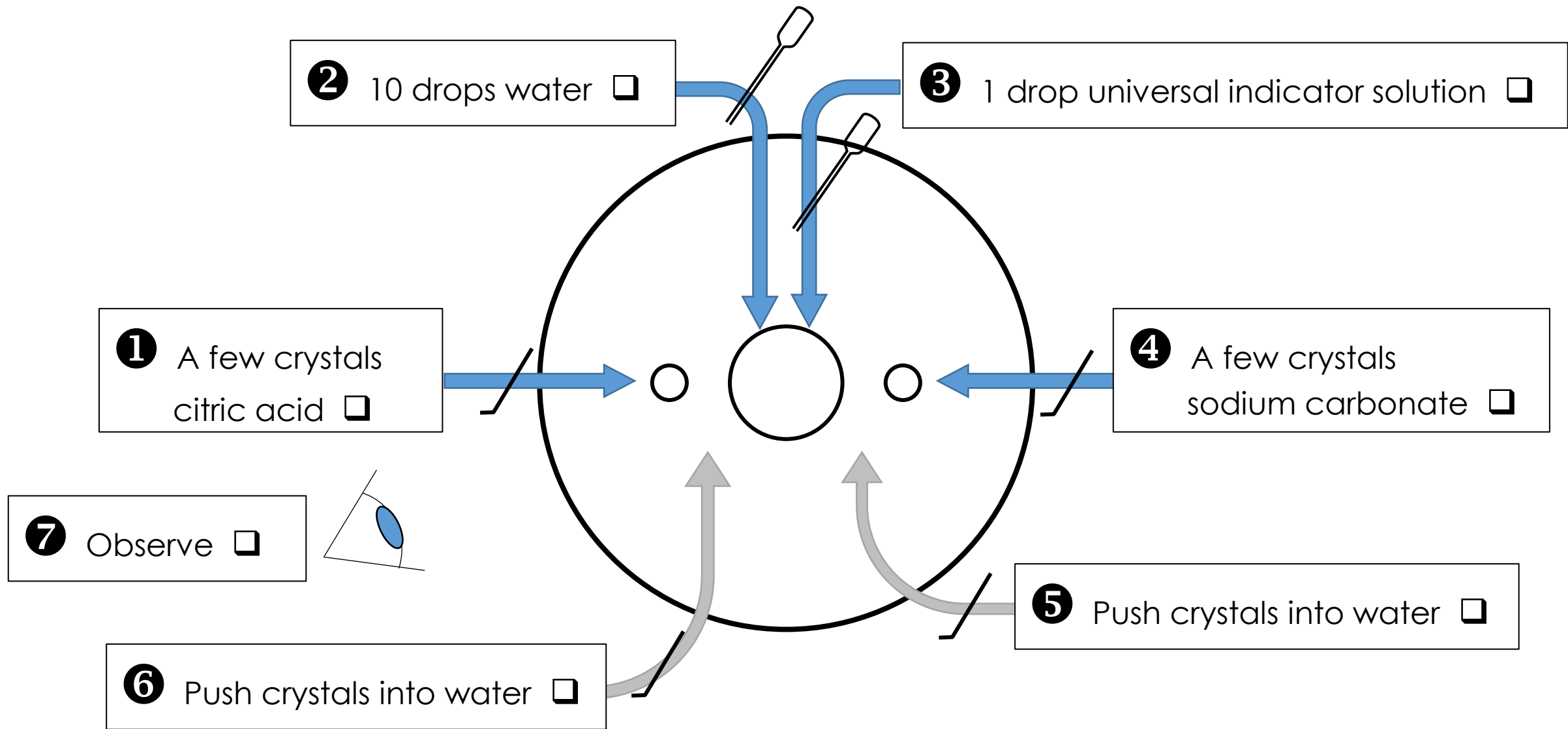
Integrated instructions use clear numbering, arrows and simple pictograms (for example, an eye showing when to make observations). They were developed using cognitive load theory and remove unnecessary information. Integrated instructions reduce extraneous load on learners, increasing the capacity of their working memory to think about what they are doing and why.

Read more at rsc.li/47bIKi5.

Learning objectives

1. Make detailed and accurate observations of chemical reactions.
2. Use your observations to infer what is happening as these reactions take place.





Discussion questions

Prompt questions for precipitation reaction

- What has happened to the lead nitrate crystals?
- What has happened to the potassium iodide?
- What is the yellow band appearing in the drop?
- Why is the yellow band nearer to one side than the other?

Prompt questions for neutralisation reaction

- What do the changes to the colour of the indicator on each side of the drop show?
- What is happening where the solutions meet?