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Connecting

Stretching

Transferring

Topic: 3e Reasoning

Activity: Shapes Translated

What you are trying to achieve ...

Exercise the capacity to think logically through a problem and see things from a variety of angles in order to arrive at a reasoned solution.

Set up the Activity

Provide a picture of two views of the same object, either on paper or interactive whiteboard — one view as a bird’s eye view, and one from directly in front.

Ask students, in pairs, to **work out what the object would be like as a three-dimensional shape, and draw it.**

Observe Students Working

How do people behave when they have to think logically?

How do students cope with frustration and uncertainty?

Do students imitate the work of others?

When students are being systematic, do they still make use of words like ‘could’, ‘might’ and ‘what if’ ...?

Debrief Through Discussion

Ask students to distil their key reasoning skills as used in this activity.

Reasoning is clearly important when trying to understand a particular challenge.

It is also important when trying to understand other people’s experiences and opinions.

Seeing things from someone else’s point of view and rationally deciding how this affects the way you see things is an important step towards constructing arguments and understanding what you really think.

Is it important to use your imagination to support your reasoning skills (and vice versa)?

Develop the ability of students to balance their opinions and present reasoned views on controversial school and social issues.

Extend Through Linking Ideas

Run through the reasoning muscle and move on to related activities.

Hints and tips

Things to Try ...

Avoid rushing to an answer — tolerate uncertainty and possibility.

Challenge them to create their own shapes as seen from different points of view for use by others.

What is the starting point when setting up a challenge?

Is it important to see it as a whole before looking from different angles?

Coaching Notes

DIY Resource

Linking Ideas

BLP

www.blp.uk.com

Connecting

Coaching Notes

3e Reasoning

3e-C-Reasoning-CN.pdf

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