Investigate three moves of a solid

NAME	DATE

1 **Activity · Work with your teacher**

Move the block and look at its mirror image. What stays the same?

Investigate three moves of a solid

1. Independently slides and turns the solid and investigates its mirror reflection. Relates the observed changes to the same solid. Record slide, turn and reflection separately, including help.

Teacher procedure · Question 1

1. Supply an asymmetric solid or a rectangular block with different marks on three faces, plus a safe classroom mirror. A plain sphere cannot make the selected moves visually distinguishable.
2. Administer each move as a short separate observation if needed. Record the actual direction or axis, materials, action, words and date. Do not score an unseen action from another completed trial.
3. Slide: ask the child to move it without turning it. Record slide.
4. Reflection: place the marked solid beside the mirror and ask the child to compare the positions of the marked faces and their image. Record the observed reflection as flip. Turning the block over is a rotation, not this reflection trial.
5. Turn: ask the child to rotate it around a point while keeping it on the table. Record turn.
6. Ask which features stayed the same. Record the actual words; do not require advanced vocabulary.

Record: Record the actual materials, response, help and observation date for each action.

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solid slide: actual action and observation

Date observed: _____

☐ Independent ☐ Not yet / help needed ☐ Not observed

What the child said or did; prompts or self-correction:

solid flip: actual action and observation

Date observed: _____

☐ Independent ☐ Not yet / help needed ☐ Not observed

What the child said or did; prompts or self-correction:

solid turn: actual action and observation

Date observed: _____

☐ Independent ☐ Not yet / help needed ☐ Not observed

What the child said or did; prompts or self-correction:

Independently slides and turns the solid and investigates its mirror reflection. Relates the observed changes to the same solid. Record slide, turn and reflection separately, including help.