

Conduct repeated chance experiments to observe relationships between outcomes; identify...

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Learning intention

- conduct repeated chance experiments to observe relationships between outcomes; identify and describe the variation in results

Teach and model

- playing games such as Noughts and Crosses or First to 20 and deciding if it makes a difference who goes first and whether you can use a particular strategy to increase...
- recording and ordering the outcomes of experiments using different physical or virtual random generators such as coins, dice and a variety of spinners, and...
- experimenting with tossing 2 coins at the same time, recording and commenting on the chance of outcomes after a number of tosses

Check understanding

- Explain the main idea in conduct repeated chance experiments to observe relationships between outcomes; identify... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.