

Conduct repeated chance experiments and simulations, using digital tools to...

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Learning intention

- conduct repeated chance experiments and simulations, using digital tools to determine probabilities for compound events, and describe results

Teach and model

- using digital tools, including generative artificial intelligence, to conduct probability simulations involving compound events
- using a random number generator and digital tools, including generative artificial intelligence, to simulate rolling 2 dice and calculating the difference between them...
- using online simulation software to conduct probability simulations to determine in the long run if events are complementary

Check understanding

- Explain the main idea in conduct repeated chance experiments and simulations, using digital tools to... 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.