

Probability & Luck

60 - 120 minutes (approx.)

Overview: 2.2

Learn about the rules of probability and create a lesson plan for a teacher or tutor which helps express the basic principles to younger learners as part of a Mathematics process. Try to make your lesson original and interesting. This lesson plan relates to challenge 2.2.

Learning Objectives: To introduce probability rules to others

- To understand how probability is part of the Mathematics syllabus.
- To learn the rules of probability.
- To understand how a lesson plan is written.
- To present probability rules clearly.

Learning Outcomes

1. I can offer a simple definition of probability.
2. I can present the main rules of probability.
3. I can find interesting and original ways to share information.
4. I can answer questions about probability.

Resources

1. Power-point presentation on 'Probability & Luck'.
2. Infographics on 'Probability & Luck'.
3. Downloadable information sheets with facts and figures.
4. 'Probability & Luck' guidance notes and downloadable support materials.

Probability & Luck

Starter

(10 minutes)

Discussion on why we teach Mathematics and, in particular, probability. Why is it useful for us and for others? Find some examples of when we use the rules of probability.

Main Activity

(40 minutes-)

Learning & Teaching Probability

The teacher or tutor should lead a brief session on different styles of teaching and learning, including learning by doing, watching and listening. This should be followed by a consideration of what kind of resources should be produced for sharing with others as learning materials. Students should also be made aware of the structures for possible lessons and how to plan these, such as starter, main activity and review. Students should think about which aspect of probability to present as well as the kind of learners who will benefit from this challenge.

Findings from the discussion should be recorded in an appropriate format and shared. Students can use the skills sheet for 'Learning & Sharing' as appropriate. Students should use the appropriate skills sheet and complete the preparation and review sections to support this activity fully.

Plenary

(10 minutes)

What have we learned?

Compare notes on which was the most effective lesson and why? What have the students learned about effective teaching and learning?

Extension Task

Use your IT skills or other digital skills to create further visual resources for students younger than yourself. Explain to others your rationale.