Max’s Magnificent Probability Guide

Step into the world of chance with Max the Monkey—where every outcome is a puzzle waiting to be solved!

- **An event that is certain to happen has a probability of 1. If you roll a standard six-sided die, the chance of rolling a number less than 7 is 100% or 1.**
- **An impossible event has a probability of 0. For example, it is impossible to roll an 8 on a standard six-sided die.**
- **When two outcomes have the same chance of happening, such as flipping a fair coin and getting heads or tails, we call this being 'equally likely'.**
- **We can express probability as a fraction. If you have 5 red marbles and 5 blue marbles in a bag, the probability of picking a red marble is 5/10, which simplifies to 1/2.**
- **Events that are 'likely' have a probability greater than 1/2, while events that are 'unlikely' have a probability less than 1/2.**

Did you know? Did you know that probability is used by scientists to predict the weather? Even though the atmosphere is complex, they use data to calculate the chance of sunshine or rain, helping us decide whether to pack an umbrella or a sun hat!

Key vocabulary: Likely · Unlikely · Certain · Impossible · Equally likely · Outcome · Chance