Organising Outcomes and Comparing Probabilities

experimental probability

 the chance that something will happen based on results from an experiment

predicted probability

- the chance that something should happen
- favourable outcomes
 all outcomes

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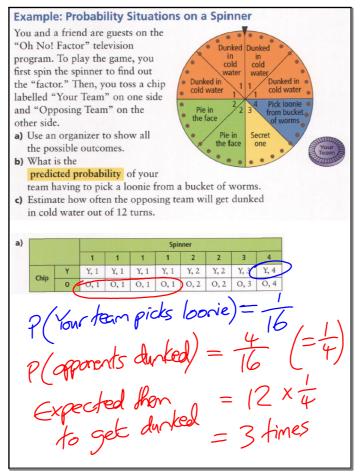
How can you organize outcomes in Rock, Paper, Scissors?

Rock, Paper, Scissors is played in pairs.

- Face each other with one hand in a fist.
- Move your fists up and down and count to 3. On 3, change your fist into one of the three hand positions.
- The winner depends on the combination.
- Rock wins over scissors. (Rock dulls scissors.)
- Scissors win over paper. (Scissors cut paper.)
- Paper wins over rock. (Paper covers rock.)
- 1. Create a way of organizing all the possible outcomes for this game.
- **2.** Use your organizer from step 1 to estimate the probability of each hand position winning.
- **3.** Play the game for about 5 min. Record your results. Use your results to find the experimental probability of each hand position winning.
- **4.** Compare your experimental probabilities to the probabilities you predicted in step 1. This is known as a fair game. Explain why.
- 5. Reflect How well does your organizer show your results? How else could you show your results?

	Rock	Paper	Scissors
Rock	RR	RP	RS
Paper	PR	PP	PS
Scissors		SP	55

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