Notes for Playing Card spreadsheet

Teaching notes	Teaching points
This spreadsheet is designed to allow teachers to focus on teaching Probability both with and without replacement. It is designed to be run from an IWB and keeps a record of the cards that have been selected when selecting without replacement. • Open the spreadsheet, click 'enable macros' on the pop-up window. • There are three separate sheets included in this spreadsheet. • Single Card (replacement): This randomly selects a card from a full deck of cards. Click on the button 'New card' to select a new card. This sheet should be used to promote discussion regarding the probability. Suggestions for key questions would be: • Am I more or less likely to select a card of the same suit next? Or does it not make any difference? Why? • What is the probability that the next card will be lower/higher/the same value/the same suit/the same colour?	The benefits of using these resources are that the pupils can be encouraged to discuss and try to predict, in a class group, the outcomes from drawing a playing card. Careful thought should be given to its use and questions planned.
Use the second sheet (single card without replacement) to ask similar questions: • Am I more or less likely to select a card of the same suit next? Or does it not make any difference? Why? • What is the probability that the next card will be lower/higher/the same value/the same suit/the same colour? • How does this differ from when we looked at it without replacement?	To use this sheet first click 'Reset' to ensure that you are selecting from a fresh deck of cards, this does not select your first card. To select a card click 'New Card'. .
The third sheet keeps track of cards picked, and would be part of the activity involved with the second sheet.	When a card is selected without replacement it is recorded on this sheet. This allows you to show which cards have already been picked, and easily see how many cards have already been picked. The cells are colour coded by suit to help with ease of identification.

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