Year: **6/7** KLA: **Mathematics** Assessment name: **What Are the Chances?** Student .....

Purpose: *To gather evidence of the students ability to plan and conduct investigations that compare theoretical and experimental probabilities.*

Knowledge & Understanding	Knowledge and Understanding	Thinking and Reasoning	
Expresses estimates of probability in different ways *ie impossible/certain, percentages, common fractions or decimal fractions between 0 and 1, '1 in 4' chance etc*	Compares theoretical probability with experimental probability.	Plans activities and investigations to explore probability concepts through the game show 'Deal or No Deal'.	
		⇐ Insightfully explores probability concepts using independently planned and clearly presented investigations to support well-reasoned predictions of probability.	**A**
⇐ Confidently and accurately uses and compares a range of expressions to describe probability e.g. '**relative frequency'**, decimals between 0 and 1, fractions and percentages. ⇐ Accurately uses mathematical methods to describe and order probability.	⇐ Insightfully compares experimental data with theoretical predictions of probability with reference to the size of the sample set and using mathematical calculations to describe the comparisons. ⇐ Makes reasonable comparisons between experimental results and theoretical predictions of probability using mathematical language.	⇐ Effectively explores probability concepts using planned and clearly presented investigations, with limited support, to support predictions of probability.	**B**
⇐ Uses mathematical methods to describe and order probability e.g. fractions, percentages.	⇐ Can compare experimental probably and theoretical probability and describe reasons for differences using informal language.	⇐ With regular guidance, plans and clearly presents probability investigations to support predictions of probability.	**C**
⇐ Uses predominately informal expressions of probability ie 'good chance',' unlikely' to describe and order events. ⇐ Recognises that one event is more or less likely than another event.	⇐ Describes the difference between experimental probability and theoretical probability and can state an educated prediction based on previous results. ⇐ Makes a prediction based on previous results.	⇐ Presents relevant information to describe experimental results given significant scaffolding. ⇐ Can gather some data in response to questions in probability.	**D** **E**

Guide to making judgments