

MATHEMATICS

GRADE FOUR

Unit Title: **PROBABILITY**

Term: **THREE**

Unit: **FOUR**

Duration: **THREE WEEKS**

FOCUS QUESTION: **How can I determine the possible outcomes of an event?**

ATTAINMENT TARGET	OBJECTIVES	KEY VOCABULARY/ CONCEPTS
<ul style="list-style-type: none">Explore the concept of chance	<p>At the end of this unit, pupils will:</p> <ul style="list-style-type: none">Make predictions regarding the outcomes of experiments and record the results explaining any differences.List the possible, expected values of an experiment.Distinguish between “fair” and “unfair” events.	Outcome Fair event Unfair event Prediction Likely/possible Impossible Certain Probable Chance Success

ACTIVITY PLAN

Focus Question: **How can I determine the possible outcomes of an event?**

PROCEDURES/ACTIVITIES	SKILLS	ASSESSMENT
<p>Pupils will:</p> <ol style="list-style-type: none">1. Play games, such as those described in the “Activity Booklet 4-6” pp. 51-53, in which spinners/dice are used to experiment with different types of outcomes. Record by tallying their successes and the number of events, and make predictions of how likely other successes are and why.2. Work in groups to make observations of events which occur in their community E.g. (i) for every ten cars observed at different times/places, how many are white? (ii) randomly select different coloured seeds/marbles from a box then record and Compare results.3. From a teacher’s description of events, pupils discuss/list the possible outcomes, make predictions, carry out experiments, then compare results with predictions. Explain possible reasons for any differences.	<ul style="list-style-type: none">• Making predictions• Constructing spinners and dice• Manipulating spinners and dice • Observing events • Interpreting results• Recording events/ experiments	<ul style="list-style-type: none">• Predictions • Tally marks • Records of experiments• List of outcomes
<p><u>Evaluation:</u></p> <p>Were pupils able to:</p> <ul style="list-style-type: none">• Make realistic predictions e.g. The number of times a three might be expected to appear when a die is thrown 10 times?• Tally accurately?• List outcomes which are realistic e.g. The numbers which could be thrown on a die?• Give plausible reasons for their predictions?	<p><u>Materials/Resources:</u></p> <p>“Activity Booklet 4 – 6” Simple recording forms Spinners Dice</p>	