

UNIT 5 *Probability*

Lesson Plans

St

<i>Lesson No.</i>		<i>References</i>
1	Probability Scale	
	Introduce concept with simple examples - discussion	A5.1 or OS 5.2
	Examples: clarify terms used	T5.1
	Exercises	T5.1
	Activity - 'Odds and Evens'	A5.2
	Homework	P5.1
2	Simple Probability	
	Basic ideas	
	Examples	T5.2
	Exercises	T5.2
	Activity with variety of outcomes	OS 5.3 or 5.4
	Homework	Complete activity and P5.2
3	Outcome of Two Events	
	Introduce through experiment (e.g. two dice/ three dice)	
	Example	T5.3
	Exercises	T5.3
	Activity - 'A Russian Fable', whole class activity, collating results	A5.4
	Homework	Complete activity and P 5.3 (Q.4)
4.	Finding Probabilities Using Relative Frequencies	
	Activity - 'Experimental Probabilities'	A 5.3
	Examples	T5.4
	Exercises	T5.4
	Homework	P 5.4 (Q.2)
5.	Determining Probabilities	
	Simple examples	T5.5
	Exercises	T5.5
	Examples	A5.5
	Homework	P 5.5 (Q.8 and 9)

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*Lesson No.**References***6. Probability of Two Events (1)**

Recap outcomes

Simple examples - two coins

Exercises

Homework

OS 5.1/ T5.6

T5.6

P5.6 (Q 4 and 5)

7. Probability of Two Events (2)

Revise with further worked examples

Activity - 'Open and Shut Case'

Exercises

Homework

T5.6

T5.6

T5.6

P5.5 (Q.6 and 7)

8. Tree Diagrams (1)

Introduce through worked examples

Exercises

Return to earlier activities

Homework

T5.7

T5.7

OS 5.3 or 5.4

P5.7 (Q.2 and 3)

9. Tree Diagrams (2)

Review homework

Exercises

Homework

T5.7

P5.7 (Q.6 and 7)

10. Misconceptions

Class activity (selected)

Revise unit

Introduce possible coursework task

A5.9

A5.5

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A

*Lesson No.**References***1. Simple Probability**

Basic ideas

Examples

Exercises

Activity with variety of outcomes

Homework

T5.2

T5.2

OS 5.3 or 5.4

Complete activity and P5.2

2. Outcome of Two Events

Introduce through experiment (e.g. two dice/ three dice)

Example

Exercises

Activity - 'A Russian Fable'. Whole class activity, collating results

Homework

T5.3

T5.3

A5.4

Complete activity and P 5.3 (Q.4)

3. Finding Probabilities Using Relative Frequencies

Activity - 'Experimental Probabilities'

Examples

Exercises

Homework

A 5.3

T5.4

T5.4

P 5.4 (Q.2)

4. Determining Probabilities

Simple examples

Exercises

Examples

Homework

T5.5

T5.5

A5.5

P 5.5 (Q.8 and 9)

5. Probability of Two Events (1)

Recap outcomes

Simple examples - two coins

Exercises

Homework

OS 5.1/ T5.6

T5.6

P5.6 (Q 4 and 5)

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*Lesson No.**References***6. Probability of Two Events (2)**

Revise with further worked examples	T5.6
Activity - 'Open and Shut Case'	T5.6
Exercises	T5.6
Homework	P5.5 (Q.6 and 7)

7. Tree Diagrams (1)

Introduce through worked examples	T5.7
Exercises	T5.7
Return to earlier activities	OS 5.3 or 5.4
Homework	P5.7 (Q.2 and 3)

8. Multiplication Law for Independent Events

Introduce through examples	T5.8
Exercises	T5.8
Homework	P5.8 (Q.6, 7 and 8)

9. Mutually Exclusive Events

Introduce through examples	T5.9
Activity - 'Fruit Machine'	A5.7
Exercises	T5.9
Homework	P5.9 (Q.11 and 12)

10. Misconceptions

Class activity (selected)	A5.9
Revise unit	
Introduce possible coursework task	A5.5

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*Lesson No.**References***1. Outcome of Two Events**

Introduce through experiment (e.g. two dice/ three dice)

Example

T5.3

Exercises

T5.3

Activity - 'A Russian Fable'. Whole class activity, collating results

A5.4

Homework

Complete activity and P 5.3 (Q.4)

2. Finding Probabilities Using Relative Frequencies

Activity - 'Experimental Probabilities'

A 5.3

Examples

T5.4

Exercises

T5.4

Homework

P 5.4 (Q.2)

3. Determining Probabilities

Simple examples

T5.5

Exercises

T5.5

Examples

A5.5

Homework

P 5.5 (Q.8 and 9)

4. Probability of Two Events

Introduce through examples

T5.6

Exercises

T5.6

Activity - 'Open and Shut Case'

A5.6

Homework

P 5.7 (Q.6 and 7)

5. Tree Diagram

Introduce through examples

T5.7/ OS 5.3 or 5.4

Exercises

Activity

A5.7

Homework

P5.7 (Q.2, 6 and 7)

6. Multiplication Law for Independent Events

Introduce through examples

T5.8

Exercises

T5.8

Homework

P5.8 (Q.6, 7 and 8)

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<i>Lesson No.</i>		<i>References</i>
7.	Mutually Exclusive Events	
	Introduce through examples	T5.9
	Activity - 'Fruit Machine'	A5.7
	Exercises	T5.9
	Homework	P5.9 (Q.11 and 12)
8	Conditional Probability (1)	
	Introduce through examples	T5.10
	Exercises	T5.10
	Activity - 'Seek and Win'	A5.8
	Homework	P 5.10 (Q.1, 2 and 6)
9.	Conditional Probability (2)	
	Review homework	
	Exercises	T5.10
	Activity - 'Birthday'	A5.10
	Homework	P5.10 (Q.7, 8 and 10)
10.	Misconceptions	
	Class activity	A5.9
	Revise unit	
	Introduce possible coursework tasks	A5.11