

UNIT 5 *Probability*

## Lesson Plans

St

*Lesson No.**References***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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**UNIT 5** *Probability*


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**St**
*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

UNIT 5 *Probability*

## Lesson Plans

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 Plans

*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 Plans

**E***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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## Lesson Plans

E

*Lesson No.**References***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