



## Applied Probability ⓘ

Tap into a framework for understanding the world around us, from sports to science.

 23 Lessons

### 1

#### Intro to Probability

Start



Thinking Probabilistically



Using Outcomes



Applications

### 2

#### Probability Rules



Rule of Sum and Rule of Product



Inclusion-Exclusion



The Rule of Complement



Problem Solving



Managing Expectations

### 3

#### Conditional Probability



Defining Conditional Probability



Applying Conditional Probability



Bayes' Theorem



Misconceptions



Casework



Conditional Expectations

### 4

#### Probability Applications



The Tennis Problem



Probability in Science



Probability in Economics



Probability in Quality Control

### 5

#### Advanced Techniques



Geometric Probability



Bijections



Recursion



Markov Chains



Generating Functions