



# BIOCHEMISTRY

## A SUBJECT COLLECTION

### OUR MISSION

At Boost, our mission is to ensure no student loses motivation or leaves education because they were unable to access effective, relevant tutorial support when they needed it the most.

### WHAT WE DO

Boost offers curated collections of short, topic level videos designed to mimic a private tutor experience. Our learning pathways improve student outcomes when used as an independent study resource, course prerequisite, exam preparation, or virtual tutor. Learning pathways can be customised to university or department curricula to ensure students get the information they need to succeed.

#### COLLECTION STATS



**561**

Videos



**132**

Assessment Questions



**40**

Hours



**437**

Learning Objectives



TOPIC	SUBTOPIC
<b>The Foundation of Biochemistry</b>	Cellular Foundation
	Chemical Foundation
	Physical Foundation
	Genetic Foundation
	Evolutionary Foundation
<b>Water</b>	Basics of Water
	Weak Noncovalent Interactions
	Colligative Properties
	Ionization of Water
	Biological Aspects of Water
<b>Amino Acids, Peptides, and Proteins</b>	Amino Acids
	Peptides and Proteins
	Sequence and Proteins
<b>Protein's Three Dimensional Structure</b>	Primary Structure
	Higher Order Structure
<b>Enzymes</b>	Introduction to Enzymes
	How Enzymes Work
	Enzyme Function
	Enzyme Kinetics

TOPIC	SUBTOPIC
<b>Carbohydrates</b>	Monosaccharides and Disaccharides
	Polysaccharides
	Glycoconjugates
<b>Lipids</b>	Fatty Acids
	Storage Lipids
	Structural Lipids
	Active Lipids
<b>Genetic Material</b>	Nucleic Acids and Nucleotides
	DNA Structure



## OUR CURATED COLLECTIONS

### Subjects

Precalculus  
Calculus I  
Calculus II  
Statistics

Probability  
General Chemistry  
Organic Chemistry I  
Biochemistry

### Disciplines

Math for Engineering  
Math for Business & Economics  
Math for Medical Sciences



#### Content

- ✓ Bite-sized video tutorials help student learn at their own pace
- ✓ Step-by-step practice videos improve learning outcomes and practical understanding
- ✓ Curated courses may be assigned by instructors or taken by students independently
- ✓ Assessments measure student progress
- ✓ Customizable courses may be edited to suit the needs of specific learners



#### Flexibility

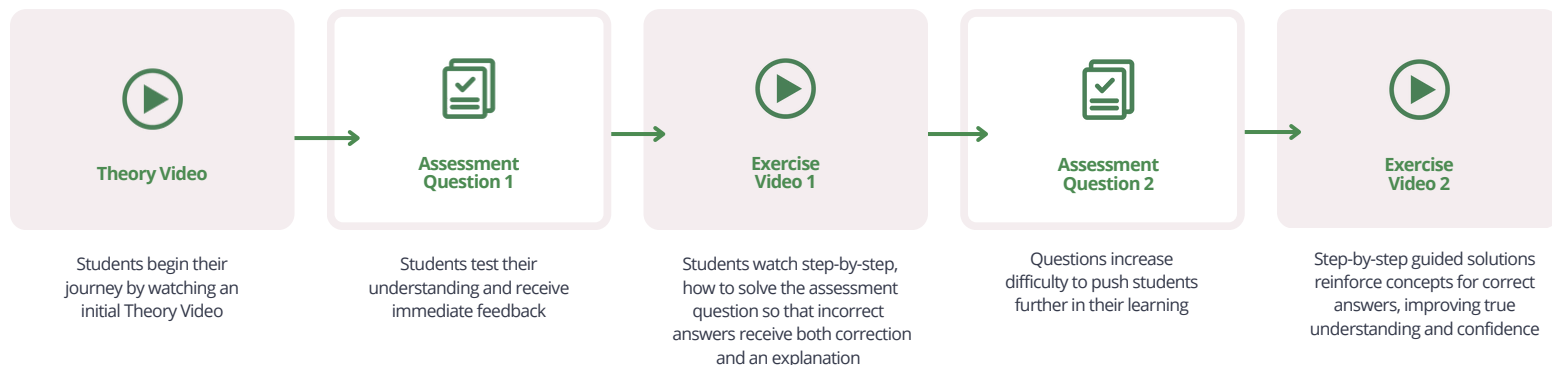
- ✓ Database of tutorial and practice videos provide students a boost in foundational math topics
- ✓ Flexible teaching resources for blended learning models
- ✓ Collection of curated online courses for use in blended learning or as prerequisites
- ✓ Editing tool to create and customize courses that meet your learners' needs



#### Technology

- ✓ Assign curated course playlists and assessments to your learners
- ✓ Track progress of your learners with live metrics and data visualization
- ✓ Create original courses from our library of over 5,000 videos and 1,700 questions
- ✓ Upload your own content to customize any course
- ✓ Search and save videos from the content library for future viewing

## OUR COURSE FLOW



Learn more at [boost-proprep.com](https://boost-proprep.com)