



# ORGANIC CHEMISTRY I

## 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



**303**

Videos



**154**

Assessment Questions



**24**

Hours



**376**

Learning Objectives



TOPIC	SUBTOPIC
<b>Introduction to Organic Chemistry</b>	Drawing Molecules
	Molecular Representation
	Structure of Organic Molecules
	Physical Properties of Organic Molecules
<b>Alkanes</b>	Nomenclature
	Conformation
	Cycloalkanes
<b>Isomerism</b>	Isomerism
	Cis-trans Isomerism
	Stereoisomerism
	Isomerism Summary
<b>Basic Principles of Chemical Reactions</b>	The Chemical Reaction
	Acid-base Reactions in Organic Chemistry
<b>Alkenes</b>	Nomenclature and Structure of Alkenes
	Electrophilic Addition to an Alkene
	Reduction and Oxidation Reactions of Alkenes
<b>Alkynes</b>	Nomenclature and Structure of Alkynes
	Addition Reactions to Alkynes
	Alkynes As Nucleophiles
<b>Delocalization and Conjugation</b>	The Electronic Nature of Delocalization
	The Chemical Nature of Delocalization

**"BOOST PROVIDES ACCESSIBLE AND EFFECTIVE LEARNING RESOURCES WHICH ARE HIGHLY USEFUL AS A SUPPORT FOR MIXED-ABILITY COHORTS OF STUDENTS."**

**Dr. Gilad Livine**

*Professor of Accounting & Finance*

*University of Bristol*



TOPIC	SUBTOPIC
<b>Aromatic Compounds</b>	Aromaticity
	Electrophilic Aromatic Substitution
	Substituted Benzenes
	Nucleophilic Aromatic Substitution Reactions
<b>Nucleophilic Substitution (Sn2 and Sn1)</b>	Sn2 Reaction
	Sn1 Reaction
	Solvent Effect
	Sn2-Sn1 Comparison
<b>Elimination Reactions</b>	E2 Reaction
	E1 Reaction
	Competition Between Substitution and Elimination
<b>Alcohols, Ethers and Amines</b>	Nomenclature of Alcohols and Ethers
	Nucleophilic Substitution of Alcohols
	Dehydration of Alcohols
	Nucleophilic Substitution of Ethers
	Nucleophilic Substitution of Epoxides
	Oxidation Reactions of Alcohols
	Amines
	Hofmann Elimination

TOPIC	SUBTOPIC
<b>Carboxylic Acids and Their Derivative</b>	Acyl Nucleophilic Substitution
	Acyl Halides
	Anhydrides
	Esters
	Carboxylic Acids
	Amides
	Nitriles



## OUR CURATED COLLECTIONS

### Subjects

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Precalculus  
Calculus I  
Calculus II  
Statistics

Probability  
General Chemistry  
Organic Chemistry I  
Biochemistry

### Disciplines

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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

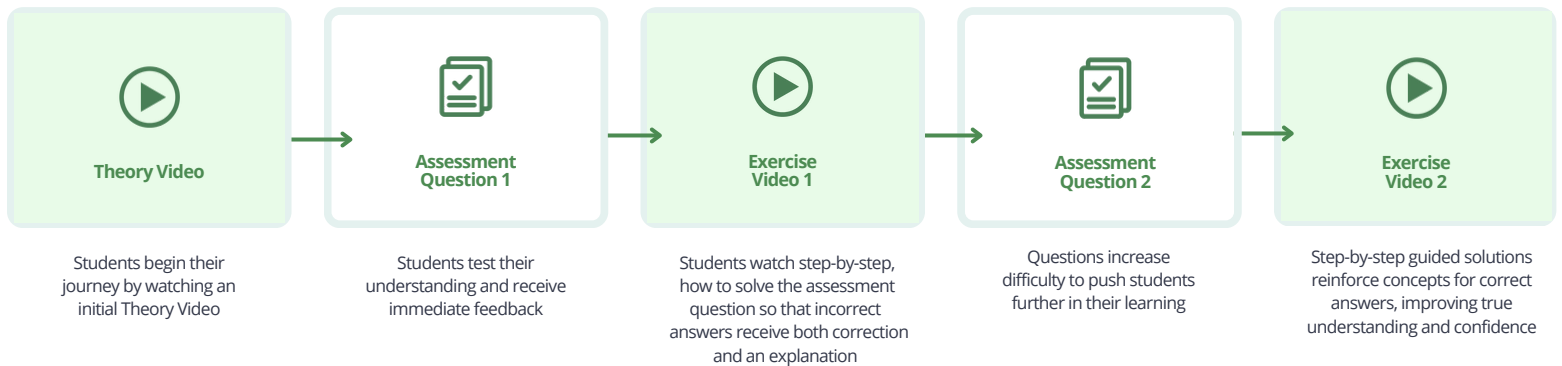
- ✓ Database of tutorial and practice videos provide students a boost in foundational math topics
- ✓ Flexible teaching resources for blended learning models
- ✓ Collection of curated online courses for use in blended learning or as prerequisites
- ✓ Editing tool to create and customize courses that 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-prep.com](https://boost-prep.com)