



**How Peer-Reviewed Video
Content
can support
Skills Based Learning &
Research Competence**

The Power of Visualization

A scientist in a lab coat and safety glasses, wearing blue gloves, is using a pipette to transfer liquid into a multi-well plate. In the foreground, a green rack holds numerous small vials, and a red rack holds larger vials. The background is a blurred laboratory setting.

Why visuals are so important?

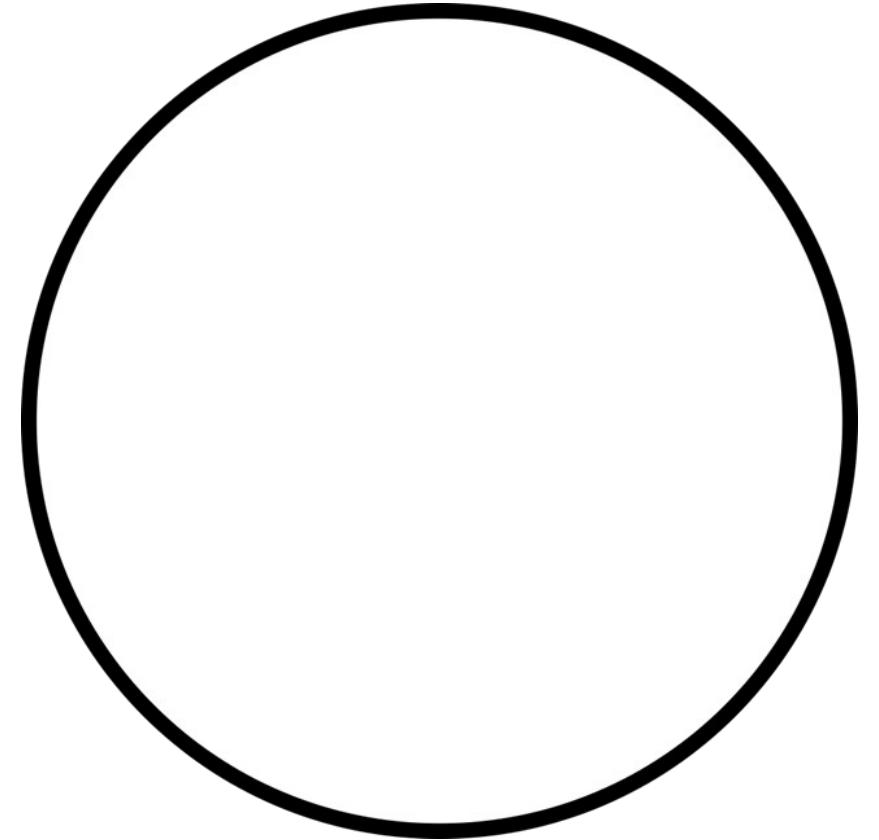
Banana

Or



A picture is worth a thousand words

“A circle is a shape consisting of all points in a plane that are at a given distance from a given point, the centre. Equivalently, it is the curve traced out by a point that moves in a plane so that its distance from a given point is constant...”



Visualizing > Reading

TEXT ARTICLE

“Position the metaphase spindle at 3 o’clock and hold it with holding pipette. Apply piezo pulses to penetrate the zona pellucida. Touch the metaphase plate with the enucleation pipette. Aspirate the spindle and withdraw the pipette.”

REAL LIFE



A few more facts



65% of people are visual learners.



Our brain can process visual images 60,000 times faster than text.



Video improves the ability to remember information - viewers can retain about 95% of the message compared to 10% when reading the text.



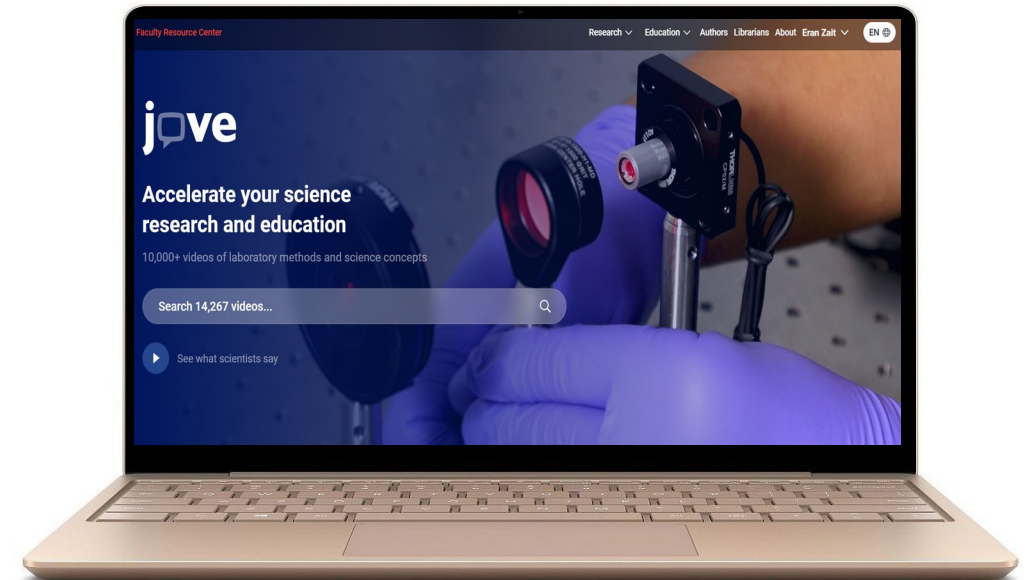
Video captures attention effectively - our eyes are drawn to movement and visual images more effectively than text.



JoVE is visualizing science

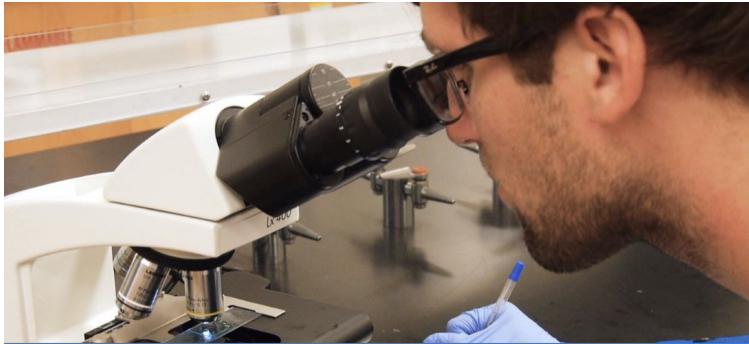
We create scientific videos that make **Teaching, Learning, and Practicing Science** more efficient, effective, and engaging.

Our mission is to improve
scientific research
and education



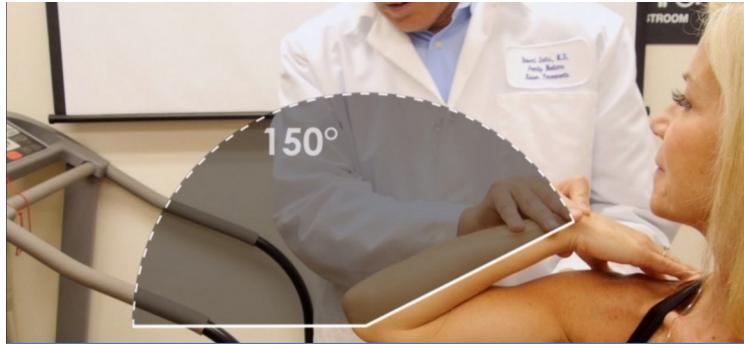
www.jove.com

JoVE Supports an Array of Instruction & Research Needs



Education

- Curriculum focused multimedia
- Embeds easily into online courses
- Improves science teaching and learning



Training

- Efficient training tool for onboarding new lab members
- Provides refreshers for seasoned scientists



Research

- Peer-reviewed methods in video and text form
- Improves reproducibility and productivity
- Helps visualize the intricate details of cutting-edge experiments

Supporting Scientific Discovery at All Levels



FOUNDATION OF SCIENTIFIC DISCOVERY

JoVE Core
JoVE Science Education



PRACTICAL REINFORCEMENT

JoVE Science Education
JoVE Lab Manual
JoVE Journal



METHODS AND PRACTICES

JoVE Science Education
JoVE Lab Manual
JoVE Encyclopedia of Experiments



APPLYING TECHNIQUES IN SCIENTIFIC DISCOVERY

JoVE Journal
JoVE Encyclopedia of Experiments



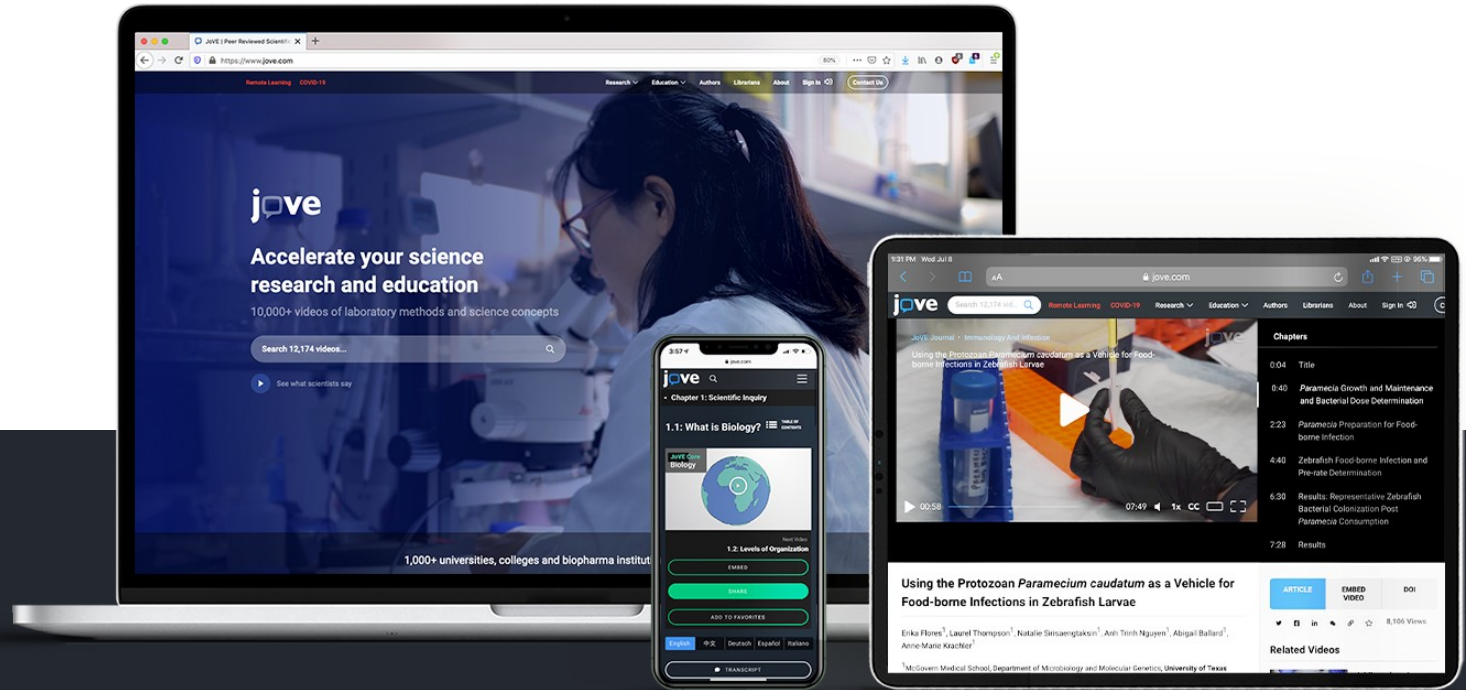
Accessing JoVE Videos

On Campus:












- ✓ IP Recognition
- ✓ Embedded in your LMS (learning management system)

Off Campus:

- ✓ Domain authentication
- ✓ OpenAthens and Shibboleth
- ✓ Authenticated remote access with EZProxy
- ✓ Embedded in your LMS (learning management system)



Seamless Integration with Online Learning Platforms

	 Google Classroom	 brightspace by D2L	
 Microsoft Teams	 Sway	Blackboard®	 canvas
 PowerPoint	 schoolology®		



**JoVE Subscription Includes a
Curriculum Specialist Team**

Meet Keisha!

JoVE's Curriculum Specialist Team

1. Support- Training Webinars and 1:1 Sessions

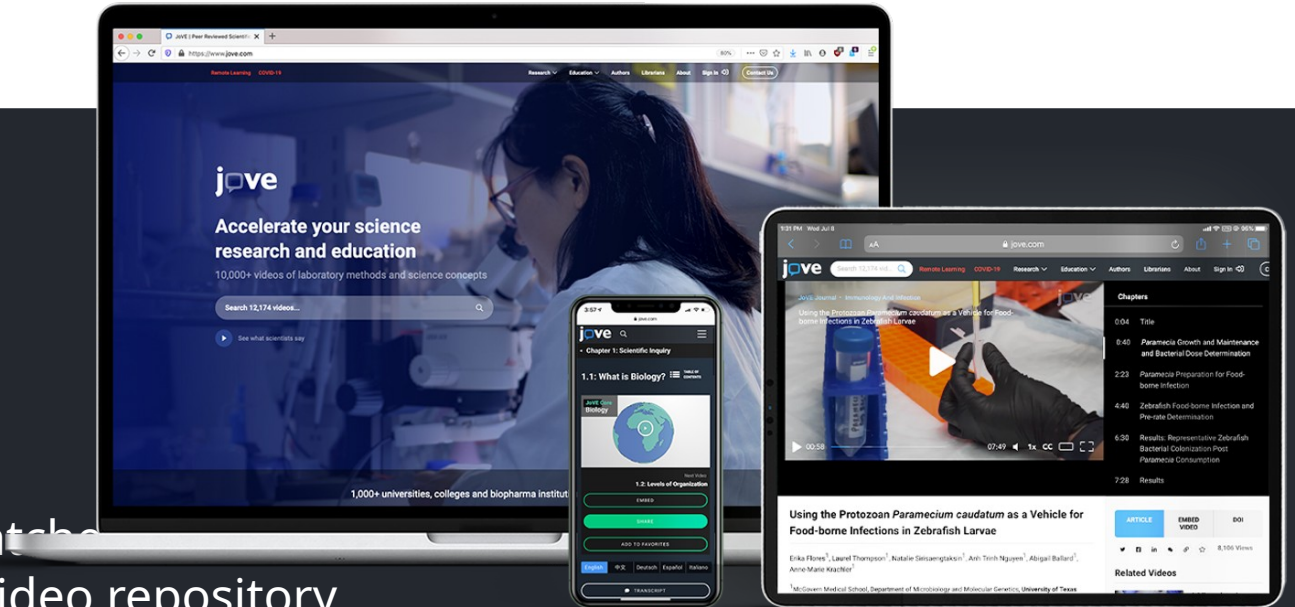
2. Understand your requirements

3. Curate content to create JoVE's Playlist

- ✓ Refresher playlists for New Incoming Batches
- ✓ Offering topic-wise playlists from JoVE video repository
- ✓ Suggested Reading lists-Textbook Maps
- ✓ Research Playlists

4. Walk you through accessing and integrating content into Moodle

5. Troubleshoot any Hiccups!



Syllabus and Training Program Mapping

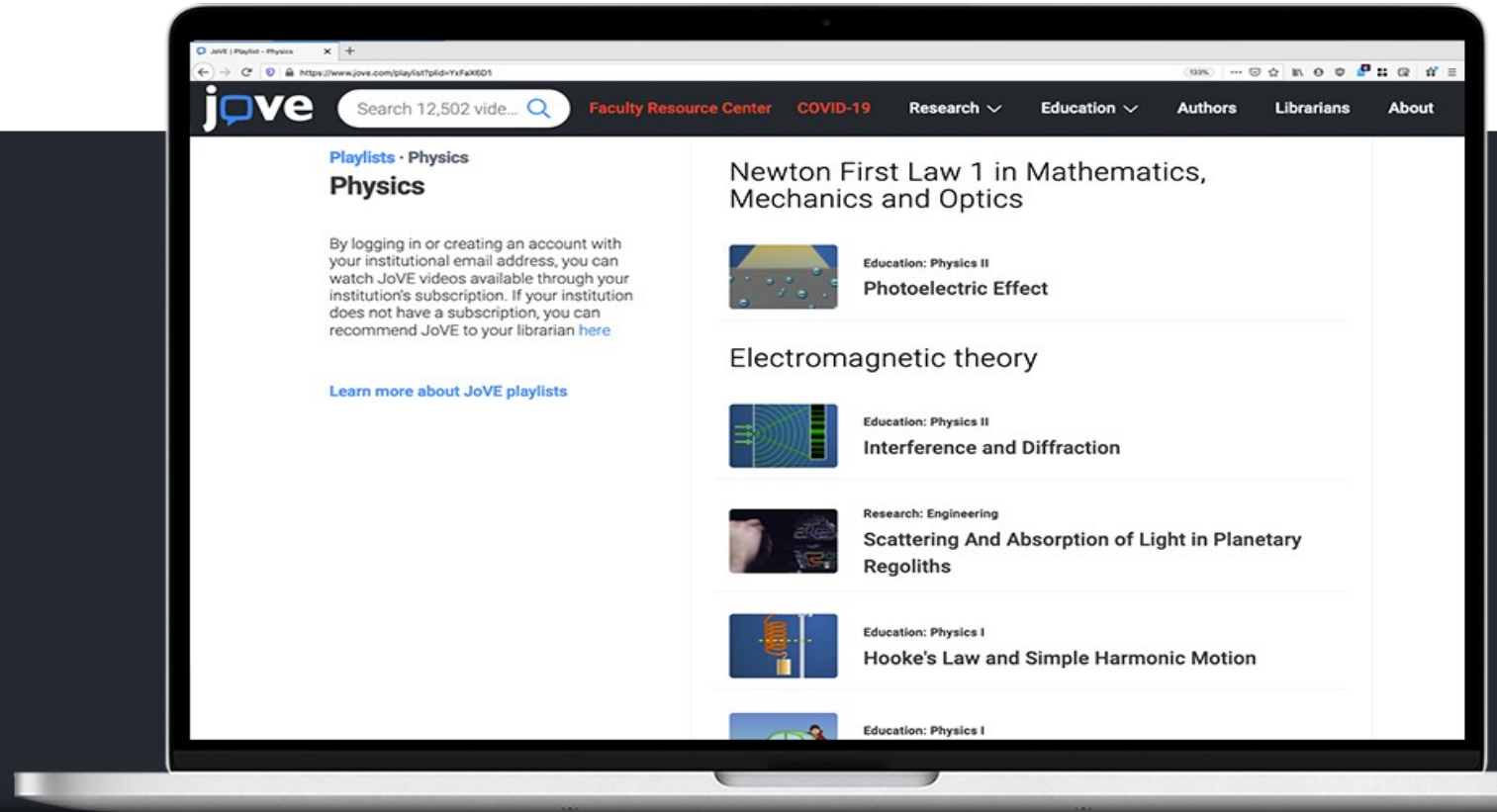
Save time on creating class curricula,
building lesson plans or establishing
laboratory training programs







JoVE Faculty Support Team maps best
videos to your course topics or training
program



Receive a clickable list of suggestions
for content that best support your
needs



JoVE Playlists

Streamline Teaching		Train Lab Members		Accelerate Research	
 Share Colleagues & Students		 Curated As per your Course			
 Locate In your JoVE Account		 Engage Students and New Lab Members			



The background of the slide features a dark, semi-transparent image of two scientists in a laboratory. They are wearing white lab coats and yellow gloves, and are holding test tubes. The image is framed by a white border. The overall design includes blue and white geometric shapes in the corners.

jove

JoVE Quiz



Accelerate your science research and education

16,000+ videos of laboratory methods and science concepts

Search 19,137 videos...



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- Chemistry
- Statistics
- Environmental-Sciences
- Physics
- Engineering
- Psychology
- Clinical-Skills

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JoVE Science Education

JoVE Lab Manual

JoVE Book **NEW**

JoVE Quiz **NEW**

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Title

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Questions

Campbell Biology Ch 1 Evolution, The Themes of Biology, and Scientific Inquiry

Biology

39

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Campbell Biology Ch 2 The Chemical Context of Life

Biology

21

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Campbell Biology Ch 3 Water and Life

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12

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Campbell Biology Ch 4 Carbon and the Molecular Diversity of Life

Biology

18

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Campbell Biology Ch 5 The Structure and Function of Large Biological Molecules

Biology

45

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Campbell Biology Ch 6 A Tour of the Cell

Biology

57

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Campbell Biology Ch 7 Membrane Structure and Function

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Campbell Biology Ch 8 An Introduction to Metabolism

Biology

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Campbell Biology Ch 9 Cellular Respiration and Fermentation

Biology

57

Preview

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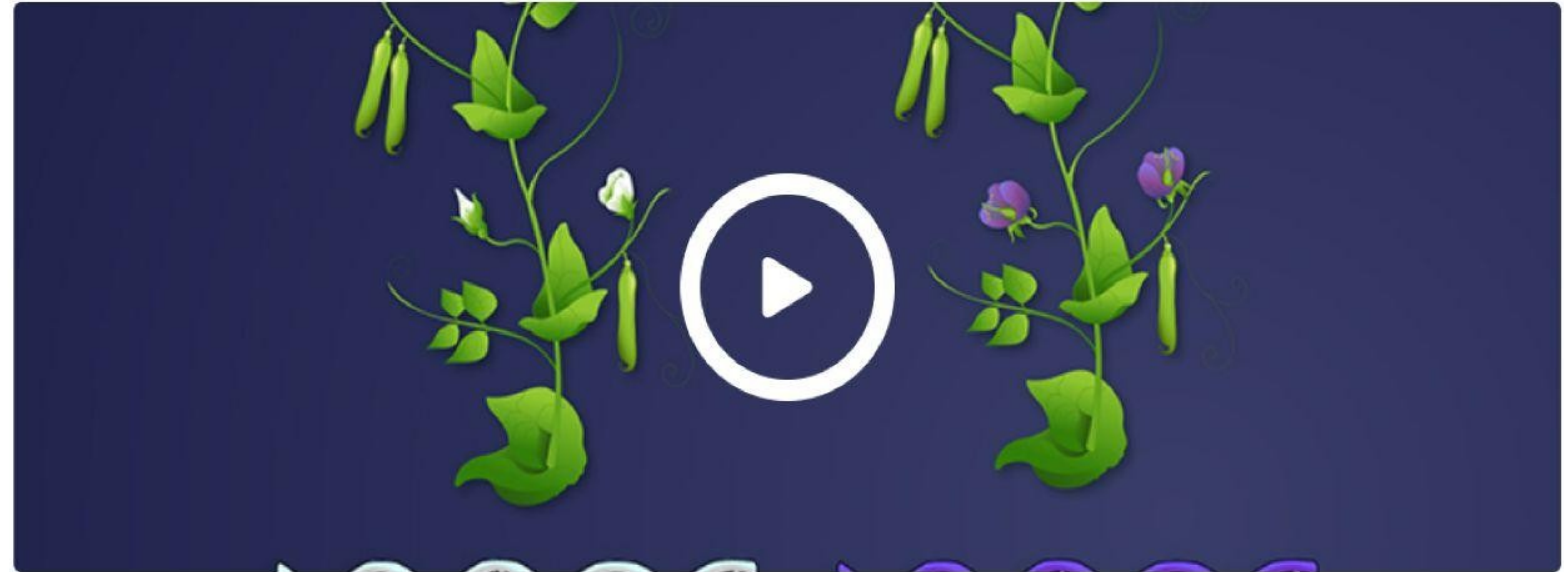
Quiz Title

Campbell Biology Ch 14 Mendel and the Gene Idea

[Edit](#)

VIDEO

Genetics of Organisms



QUESTION

Which of the following statements is correct?

☐ 1. Humans are the only organism with two copies of chromosomes.☒ 2. Genes on somatic chromosomes follow Mendelian inheritance patterns.

[← Back to Quiz](#)[Need Help?](#)

Quiz Title *

Quiz Title

Quiz Type * ⓘ

☐ Graded ☒ Ungraded

Start Date ⓘ

 06/04/2023 08:24 PM


End Date * ⓘ

 dd/mm/yyyy hh:mm

Time Duration(in minutes)

Quiz Duration in Minutes

Enable Closed Caption ⓘ

 QUESTION

Write Questions...



1. Option 1



2. Option 2



3. Option 3

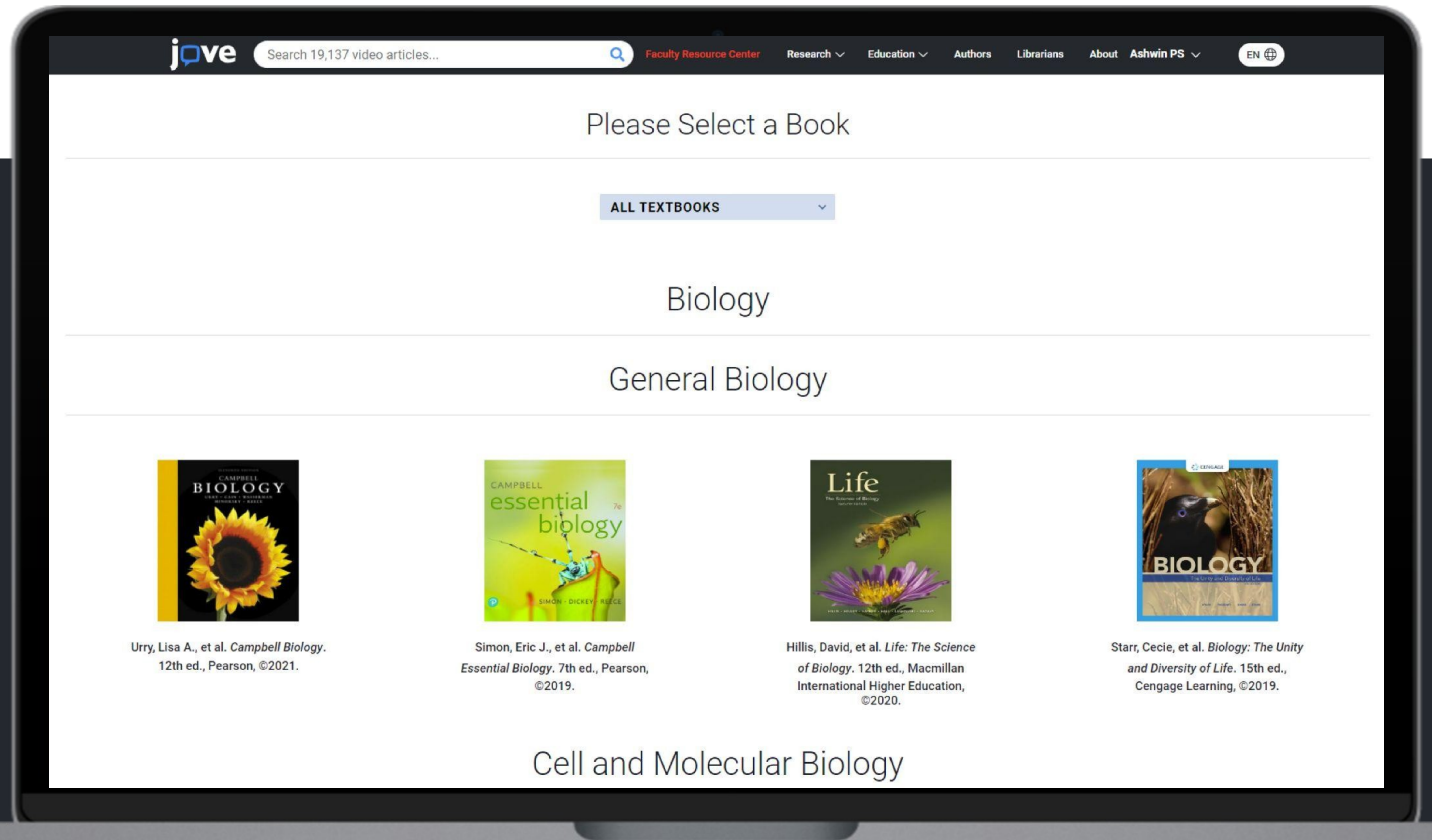


4. Option 4

[Add Option](#)[Import Questions](#)[Create Custom Question](#)[+ Add Questions](#)

Textbook Mappings

- Campbell Biology
- OpenStax Biology
- OpenStax Chemistry
- OpenStax Microbiology
- OpenStax Anatomy & Physiology



Faculty Resource Center

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Integration of JoVE videos into online courses and your LMS

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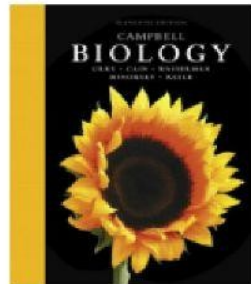
Guides for teaching remotely with JoVE videos

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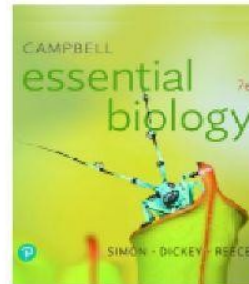
ALL TEXTBOOKS ▾

Biology

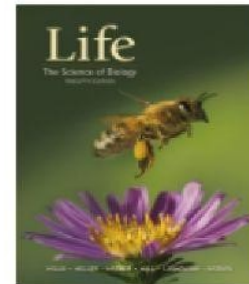
General Biology



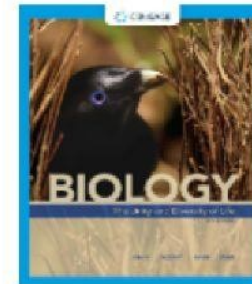
Urry, Lisa A., et al. *Campbell Biology*. 12th ed., Pearson, ©2021.



Simon, Eric J., et al. *Campbell Essential Biology*. 7th ed., Pearson, ©2019.

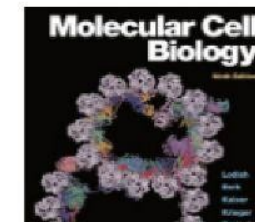
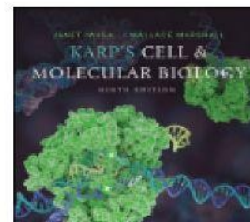
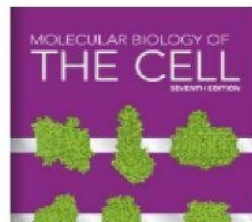


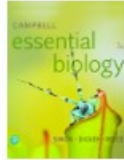
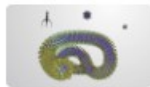
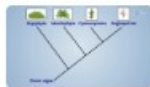
Hillis, David, et al. *Life: The Science of Biology*. 12th ed., Macmillan International Higher Education, ©2020.



Starr, Cecie, et al. *Biology: The Unity and Diversity of Life*. 15th ed., Cengage Learning, ©2019.

Cell and Molecular Biology



[< BACK](#)Simon, Eric J., et al. *Campbell Essential Biology*. 7th ed., Pearson, ©2019.**Chapter 1**
Learning About Life**Unit 1 Cells****Chapter 2**
Essential Chemistry for Biology**Chapter 3**
The Molecules of Life**Chapter 4**
A Tour of the Cell**Chapter 5**
The Working Cell**Chapter 6**
Cellular Respiration: Obtaining Energy from Food**Chapter 7**
Photosynthesis – Using Light to Make Food**Unit 2 Genetics****Chapter 8**
Cellular Reproduction: Cells from Cells**Chapter 9**
Patterns of Inheritance**Chapter 10**
The Structure and Function of DNA**Chapter 11**
How Genes Are Controlled**Chapter 12**
DNA Technology**Unit 3 Evolution and Diversity****Chapter 13**
How Populations Evolve**Chapter 14**
How Biological Diversity Evolves**Chapter 15**
The Evolution of Microbial Life**Chapter 16**
The Evolution of Plants and Fungi**Chapter 17**
The Evolution of Animals**Unit 4 Ecology****Chapter 18**
An Introduction to Ecology and the Biosphere**Chapter 19**
Population Ecology**Chapter 20**
Communities and Ecosystems



How is JoVE Helping Kenyan Institutions

- Peer Reviewed Video Content enhancing that aligns with Curriculum – bringing Credibility & Comprehension
- Video Content supported with audios, Quizzes, LMS Embedding, subtitles, video speeds & personalised playlists
- Free Onboarding & Training on campus & online by Keisha Njenga
- Student engagement & satisfaction
- High usage & high impact!