

JoVE

EDUCATION

This library of videos illustrating key concepts and lab techniques in science, engineering, and medicine helps educators worldwide achieve their strategic teaching objectives, boost student engagement and improve learning outcomes.

High-impact animations and easy-to-understand video demonstrations of experiments enable faculty and students in basic and advanced science courses to get the most out of teaching and learning, be it on campus or remotely.

Partnering With JoVE Today

- **Free syllabus mapping for faculty:** JoVE's staff Ph.D.'s can map JoVE content to any syllabus and create shareable playlists.
- **Seamless integration with online learning platforms** such as Zoom, Microsoft Teams, Google Classroom, as well as LMSs (learning management systems).
- **Subscription-supporting collateral** at no cost to the library — digital posters, newsletter PDFs, information sheets, etc.
- **Faculty-supporting webinars** with a Curriculum Specialist, who can help instructors incorporate JoVE videos into their courses.



Studies show that after watching JoVE videos,

96%
of students reported
better concept
comprehension¹

Science test scores
increased by up to
100%²

90%
of students felt more
confident in the lab²



24/7 Access for Faculty, Researchers, and Diverse Student Bodies

JoVE is available 24/7, worldwide. With subtitles in 10+ languages and downloadable text protocols, JoVE videos are perfect for diverse groups of students, including those who require a different pace of instruction than their peers and those with hearing impairments.

"I found it [JoVE] to be extremely useful for what I'm going to be needing to do [teaching remotely]... There's something there for everyone, all types of learners... especially when delivery of content could change really rapidly"

—Peter Ronai, Clinical Professor of Exercise Science at Sacred Heart University



Improved Student Learning Outcomes and Engagement

JoVE Education videos enable quick in-depth comprehension of complex science topics, saving in-class time for higher-impact teaching activities previously spent on concept explanation. The videos can improve student engagement and learning outcomes by over 50%¹, and facilitate success in flipped, in-person, hybrid, and virtual classrooms.

"The videos look very sleek and are scientifically accurate, I think their content is ideal for a quick recap revision ahead of exams."

—Caroline Pellet-Many, Lecturer in Biomedical Sciences at the Royal Veterinary College



Streamlined Lesson Planning

JoVE videos can save faculty 30+ minutes of lesson planning and facilitate success in in-person, flipped, and virtual classrooms, such as online lab courses. In addition, free syllabus maps, personalized video playlists, and customizable tests are available to support instruction.

"Highly structured content. Easy to share/embed into online lectures and courses. Content is curated and peer-reviewed. Most videos come from scientist[s], not from educators. This is especially helpful for Master level students or grad students to see 'real-world' scenarios."

—Dr. Sascha Offermann, Institute of Botany at the Leibniz University Hannover

¹ Ramachandran, R., Sparck, M., & Levis-Fitzgerald, M. (2019). Investigating the Effectiveness of Using Application-Based Science Education Videos in a General Chemistry Lecture Course. *Journal of Chemical Education* 96(3), 479-485. ² Mutch-Jones, K., Sengupta, N., Minor, V. C., & Goudsouzian, L. K. (2020). Professional science education videos improve student performance in nonmajor and intermediate biology laboratory courses. *Biochemistry and Molecular Biology Education*. Advance online publication.

JoVE Science Education

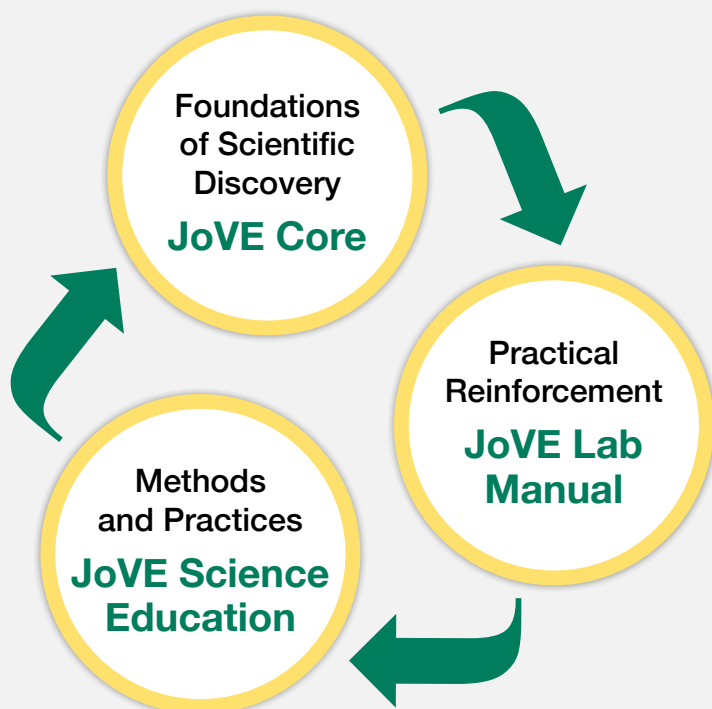
A revolutionary video library dedicated to teaching scientific and clinical fundamentals through easy-to-understand video demonstrations. With text translations and subtitles in over 10 languages, 500+ videos on topics commonly taught in science courses capture key conceptual and methodological details that are difficult to visualize using text alone.

- **Advanced Biology**
- **Basic Biology**
- **Chemistry**
- **Clinical Skills**
- **Engineering**
- **Environmental Sciences**
- **Physics**
- **Psychology**

“I found the practical experiments in particular great as they incorporate the theory and technical bits together to introduce the concept to the student in a simple, yet informative way.”

— Aref Zayed, Assistant Professor,
Jordan University of Science
and Technology

Use JoVE to Support Learning at All Levels



JoVE Core

Video textbooks for introductory courses that can serve as effective primary or supplementary teaching resources. Key concepts are brought to life through high-impact animations and scientist-in-action videos of experiments conducted in laboratory settings.

- JoVE Core: **Biology**
- JoVE Core: **Chemistry**
- JoVE Core: **Molecular Biology**
- JoVE Core: **Organic Chemistry**
- JoVE Core: **Social Psychology**
- JoVE Core: **Statistics**

JoVE Lab Manual

Curriculum-focused video resources that support teaching and learning of commonly taught introductory labs. Three separate videos with step-by-step instructions for each lab experiment illustrate lab preparation for instructors, key theoretical concepts, and a protocol for students.

- JoVE Lab Manual: **Biology**
- JoVE Lab Manual: **Chemistry**