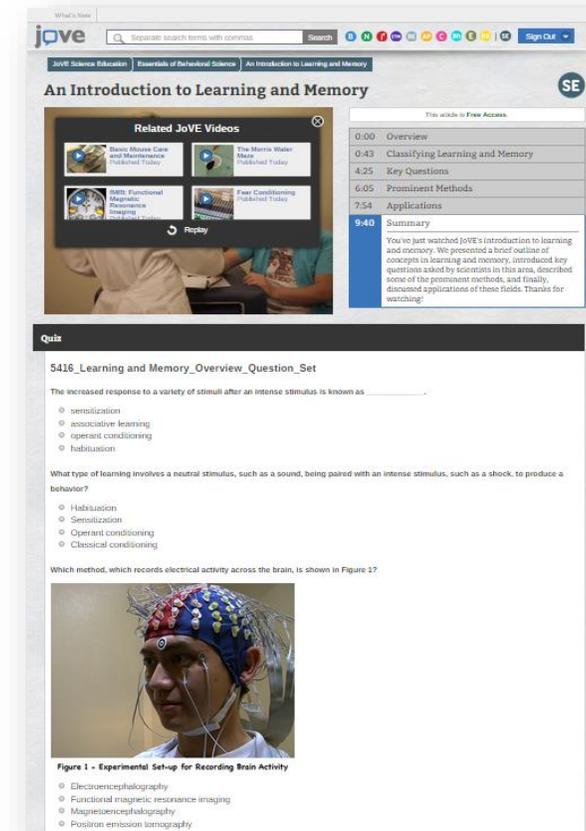


Introduction to JoVE Quiz



JoVE Quiz for Science Education

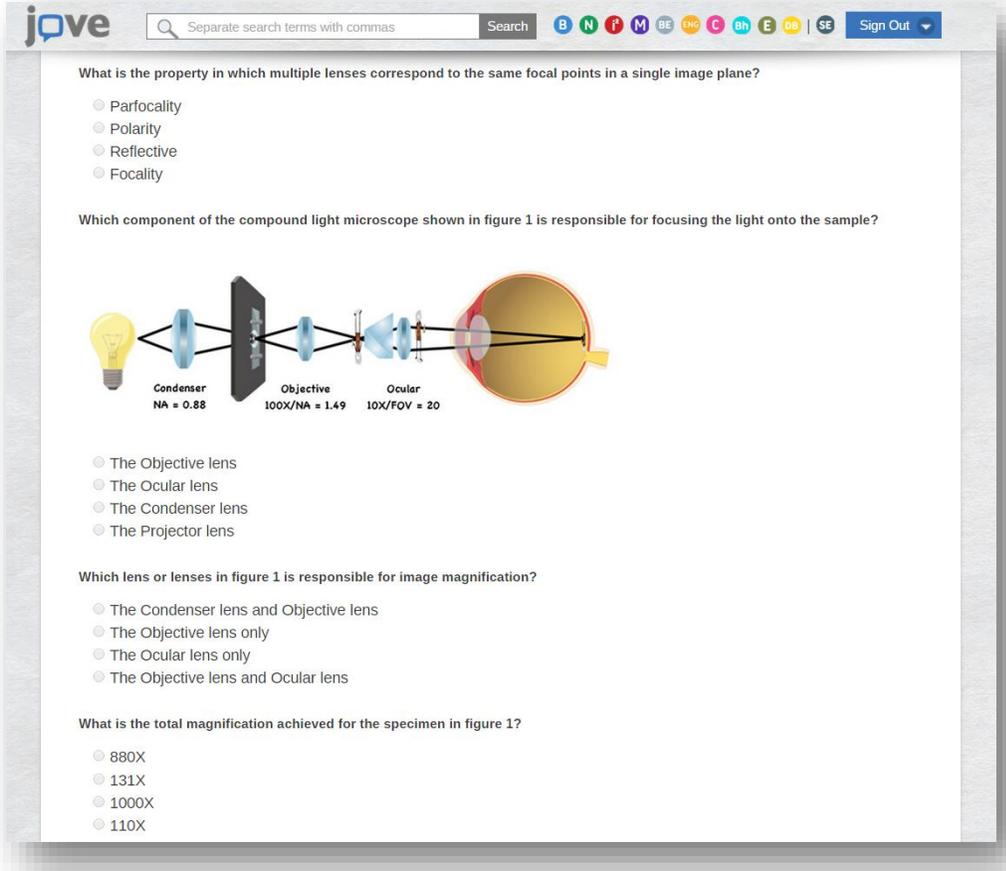
- Flexible online instrument for evaluating student outcomes
- Fully customizable quiz for every JoVE Science Education video
- Topics include: general lab techniques, cell biology, neuroscience, developmental biology, behavior, model organisms, etc.



The screenshot displays the JoVE website interface. At the top, there is a search bar and navigation links. The main content area features a video player for 'An Introduction to Learning and Memory' with a 'Play' button. To the right of the video player is a table of contents with timestamps: 0:00 Overview, 0:43 Classifying Learning and Memory, 4:25 Key Questions, 6:05 Prominent Methods, 7:54 Applications, and 9:40 Summary. Below the video player is a 'Quiz' section titled '5416_Learning and Memory_Overview_Question_Set'. The quiz contains three multiple-choice questions. The first question asks for the term for an increased response to a stimulus after an intense stimulus, with options: sensitization, associative learning, operant conditioning, and habituation. The second question asks for the type of learning involving a neutral stimulus paired with an intense stimulus, with options: habituation, sensitization, operant conditioning, and classical conditioning. The third question asks for the method that records electrical activity across the brain, with options: Electroencephalography, Functional magnetic resonance imaging, Magnetoencephalography, and Positron emission tomography. Below the third question is a photograph of a person wearing an EEG cap with electrodes, labeled 'Figure 1 - Experimental Set-up for Recording Brain Activity'.

Features of JoVE Quiz

- Each quiz has 10 preset multiple questions with 4 answers that can be edited in part or in whole
- Option to include video stills, graphics, images in quiz
- One-time-only email authentication for student responses
- Students see score upon completion

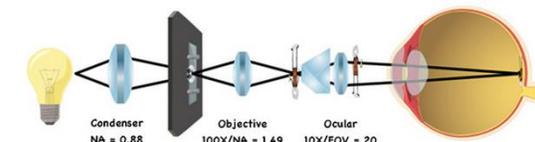


The screenshot shows a JoVE quiz interface. At the top, there is a search bar with the text "Separate search terms with commas" and a "Search" button. To the right of the search bar are several social media icons (B, N, f, M, BE, ENG, C, Bh, E, GB, SE) and a "Sign Out" button. The main content area contains four multiple-choice questions. The first question is: "What is the property in which multiple lenses correspond to the same focal points in a single image plane?" with options: Parfocality, Polarity, Reflective, and Focality. The second question is: "Which component of the compound light microscope shown in figure 1 is responsible for focusing the light onto the sample?" Below this question is a diagram of a compound light microscope. The diagram shows a light source (a light bulb) on the left, a condenser lens, a specimen slide, an objective lens, an ocular lens, and an eyepiece. Labels below the diagram indicate: "Condenser NA = 0.88", "Objective 100X/NA = 1.49", and "Ocular 10X/FOV = 20". The third question is: "Which lens or lenses in figure 1 is responsible for image magnification?" with options: The Objective lens, The Ocular lens, The Condenser lens, and The Projector lens. The fourth question is: "What is the total magnification achieved for the specimen in figure 1?" with options: 880X, 131X, 1000X, and 110X.

What is the property in which multiple lenses correspond to the same focal points in a single image plane?

- Parfocality
- Polarity
- Reflective
- Focality

Which component of the compound light microscope shown in figure 1 is responsible for focusing the light onto the sample?



Condenser NA = 0.88 Objective 100X/NA = 1.49 Ocular 10X/FOV = 20

- The Objective lens
- The Ocular lens
- The Condenser lens
- The Projector lens

Which lens or lenses in figure 1 is responsible for image magnification?

- The Condenser lens and Objective lens
- The Objective lens only
- The Ocular lens only
- The Objective lens and Ocular lens

What is the total magnification achieved for the specimen in figure 1?

- 880X
- 131X
- 1000X
- 110X

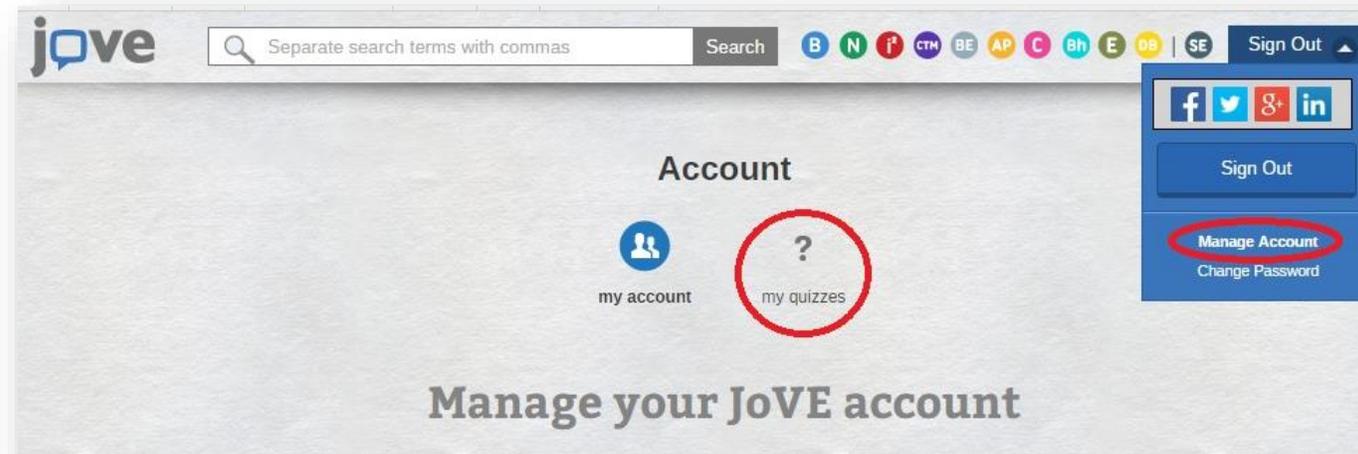
What people are saying

“JoVE Quiz is very easy to use and offers great functionality. Not only does JoVE Quiz make lectures more engaging and enhance student understanding of lab techniques, it’s also a handy study guide for exams.”

-Dr. Leonard Khiroug, University of Helsinki

How it works

- Professors/administrators log in at www.jove.com/account to:
 - Create unique quiz or use preexisting quiz
 - Easily issue quizzes to students via email
 - Create separate quizzes for different classes/sections
 - Automatically compile and tabulate student responses



Details

www.jove.com/account/quizzes

jove Separate search terms with commas Search B N F M BE ENG C Bh E DB | SE Sign Out

Questions may be ordered however you would like just drag and drop them where you would like them to be.

Question 1: Why is RCF a better way to describe the magnitude of centrifugation when compared to r.p.m.?

Answers:

- RCF takes into account the duration of the centrifugation
- RCF is a measure of relative force.
- RCF is specific to centrifugation, whereas r.p.m. is more
- RCF is more accurate compared to r.p.m., which is an es

Image: Choose File No file chosen

Question 2: What is the chief difference between a fixed angle and a swinging bucket rotor?

Answers:

- The size of the centrifuges that hold them.
- The direction of the applied force on the sample.
- The maximum speed of the centrifuges.
- The amount of force on the sample.

Image: Choose File No file chosen

Question 3: Is there a solution that can be discarded when washing cells?

Answers:

- No, there is no waste solution after washing cells.
- Yes, it is the solution above the meniscus.
- Yes, it is the solution below the supernatant.
- Yes, it is the supernatant above the pellet.

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Thank you

