



# User Guide

# Welcome

Roqed Science is high-quality visual and interactive software designed for the most effective subject learning.



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# Installation and Activation

To install the application, follow these steps:

Click on the provided link to download the installation file.

Once downloaded, locate the file in your download folder and run the installer. During installation, you can choose your preferred language and installation path.

The installation process may take several minutes to complete.

After installation, the ROQED Science application will automatically launch.

Upon the initial program launch, an "Activation" window will appear. Enter the 20-character activation key, which you can obtain on the website: [Website URL].

ROQED Science

Enhance teaching and learning

For Windows

For Android

License types

Minimum

Recommended

Intel Core i3 6700

Intel HD Graphics 530

4 Gb RAM

Windows 10 64-bit

128 Gb HDD (for soft)

Download now

Intel Core i5 7600

Nvidia GTX960

8 Gb RAM

Windows 10 64-bit

128 Gb SSD

Download now

Starter guide

User Manual



# Demo Mode

In the demo mode, you have access to 7 trial lessons. The remaining lessons are available only in the paid version and can be identified by a lock icon.

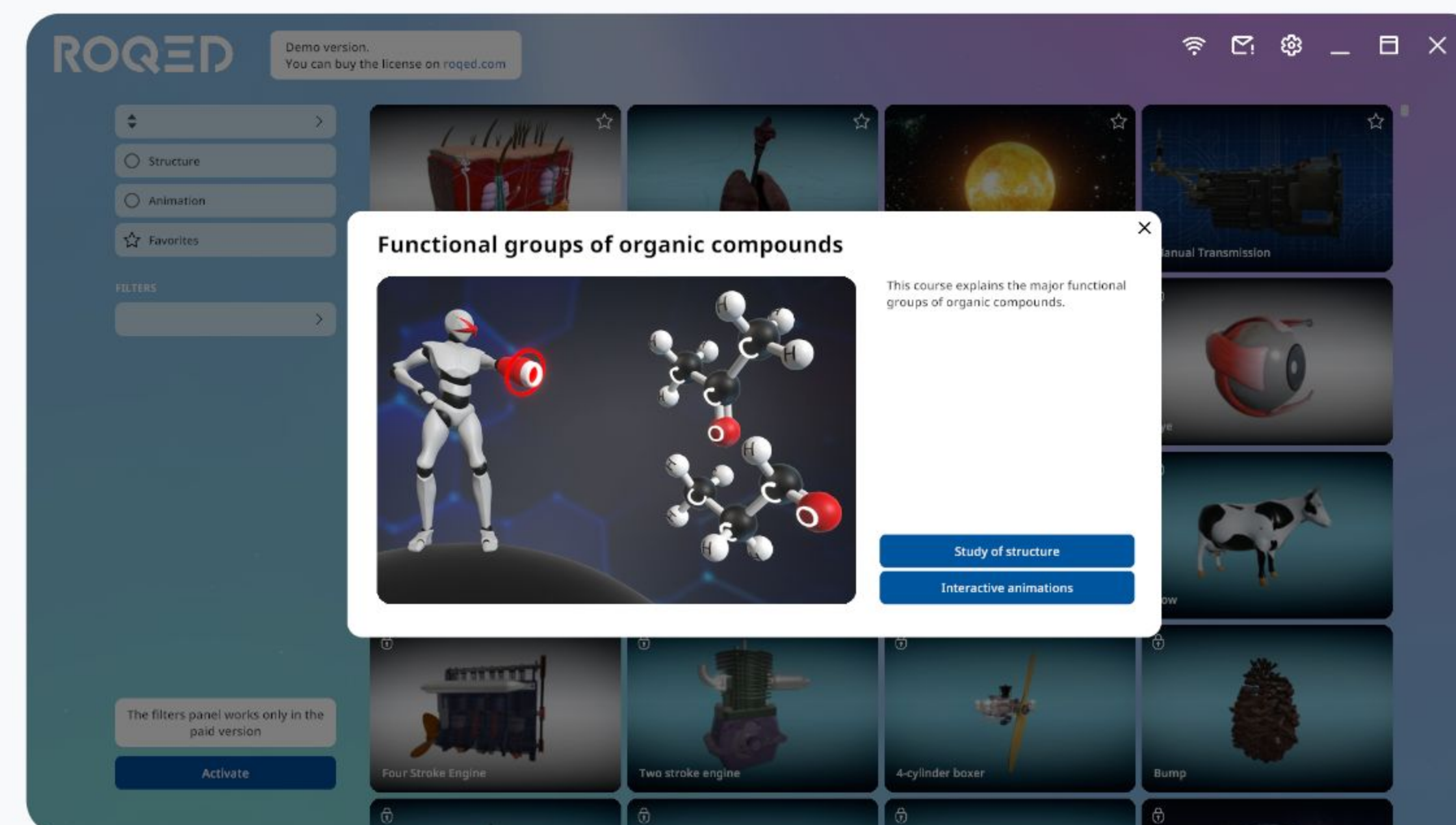
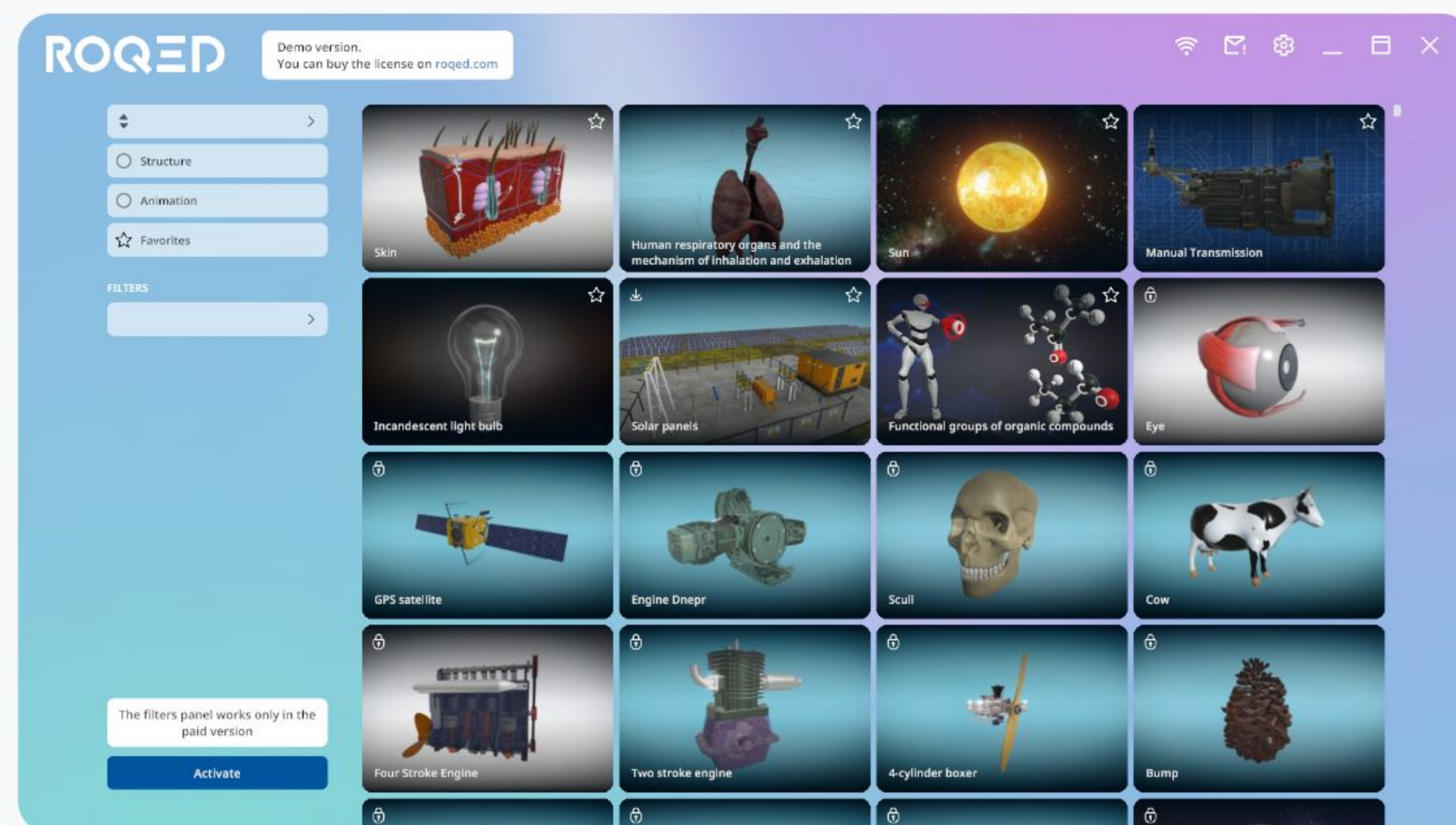
Filters and sorting options located on the left will be active only when using the paid version.

You can access lessons that consist of two types of content: Interactive Animations and Study of Structure.

Interactive Animations allow you to play animated videos accompanied by voice explanations.

Structural Study enables you to analyze, rotate, and explore models from different perspectives.

For more detailed information about each of these content types, please refer to the following sections.





# Main Screen Overview

In the paid version, on the main page, you will find all the available lessons along with filter located on the left-hand side of the panel.

To download courses and play audio, you will need to switch to the "Online" mode. In case of slow internet connection, you can use the "Offline" mode.

Offline mode

Technical support

Settings

Minimize the application

Full-screen / windowed mode

Close the application / lesson

Sorting

Sorting by content type

Favorite lessons

Filters for all libraries

Search across all libraries

ROQED

Recently opened

Structure

Animation

Favourites

FILTERS:

Cambridge

Physics

Grade 11

All

Search

Manual Transmission

External photoelectric effect

GPS satellite

Alternator

Planetary gearbox

Liquid thermometer

Two-speed gearbox

Transformer

Infrared thermometer

Digital thermometer

Bimetallic thermometer

Gas thermometer

Types of thermometers

Gravity

Relation of angular velocity to linear velocity

Satellite TV

Add lesson to favorites

Download lesson

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# Settings

In the settings window, you can configure the following options:

Adjust the language of the interface to your preference.

Determine where to save reports after completing tests.

Optimize screen resolution and graphics quality for better performance on lower-end devices.

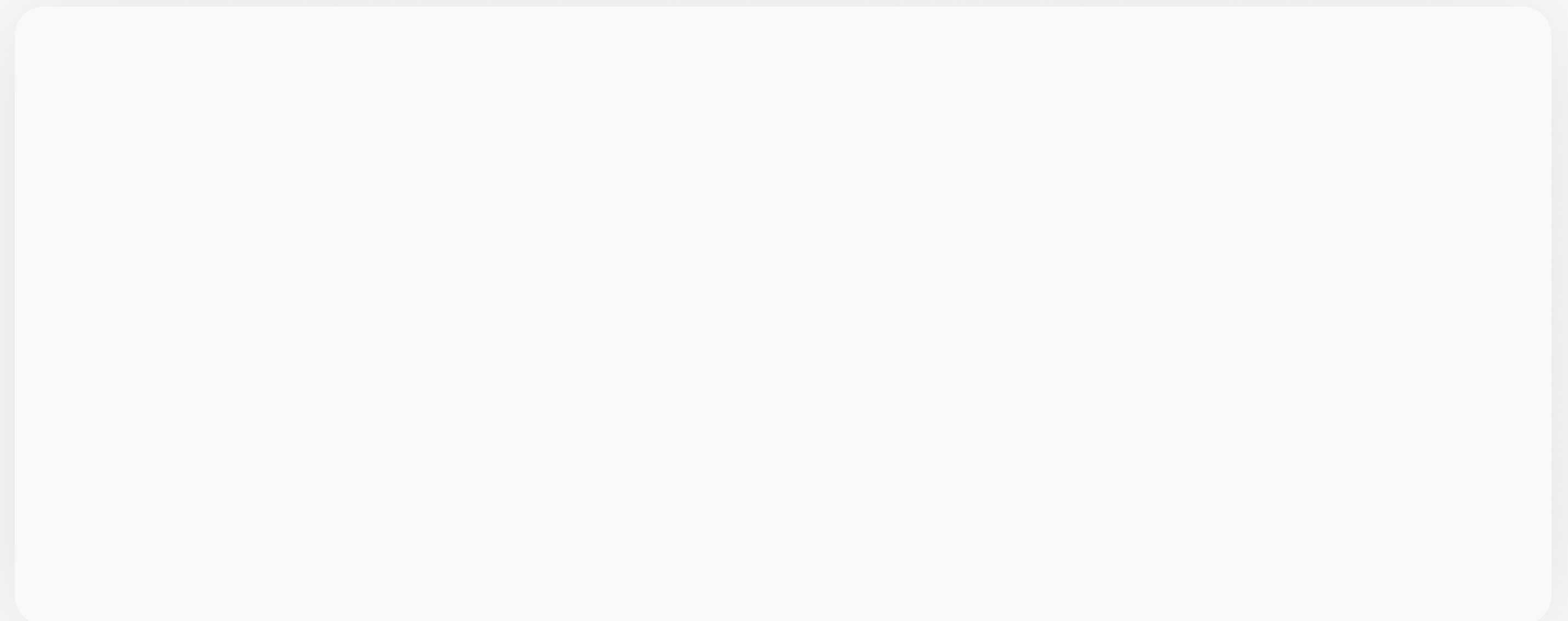
Customize the background color to enhance your application experience.

Dynamic Resolution: Enable this feature for automatic graphics adjustments based on your device.

In the sound settings section, you can:

Adjust the music and voice volume to match your preferences. Additionally, you can fine-tune sound levels in your device settings if needed.

Pressing the button will open the Downloads window, where you can select the necessary lessons for updates.





# Interactive Animations

This mode serves as a powerful tool for visually explaining various processes, such as laws, phenomena, and device principles.

The system plays animated videos, accompanied by synthesized voice narration, ensuring a comprehensive understanding of the material.

The animation mode is available only on specific models.

# Control



## Camera Rotation

On the interactive panel: Use a single finger to touch and move it in the desired direction to rotate and inspect objects from different angles.

On the computer: Hold the right mouse button and move it in different directions.



## Camera Movement

On the interactive panel: Use two fingers to move the camera in the desired direction.

On the computer: Hold the right mouse button.



## Camera Zoom In/Out

On the interactive panel: Spread or pinch two fingers on the panel to zoom in or out.

On the computer: Scroll the mouse wheel.



## Reset Camera to Default

Double-click on empty space to reset the camera to its default position.



# Interface Overview

Drawing Mode

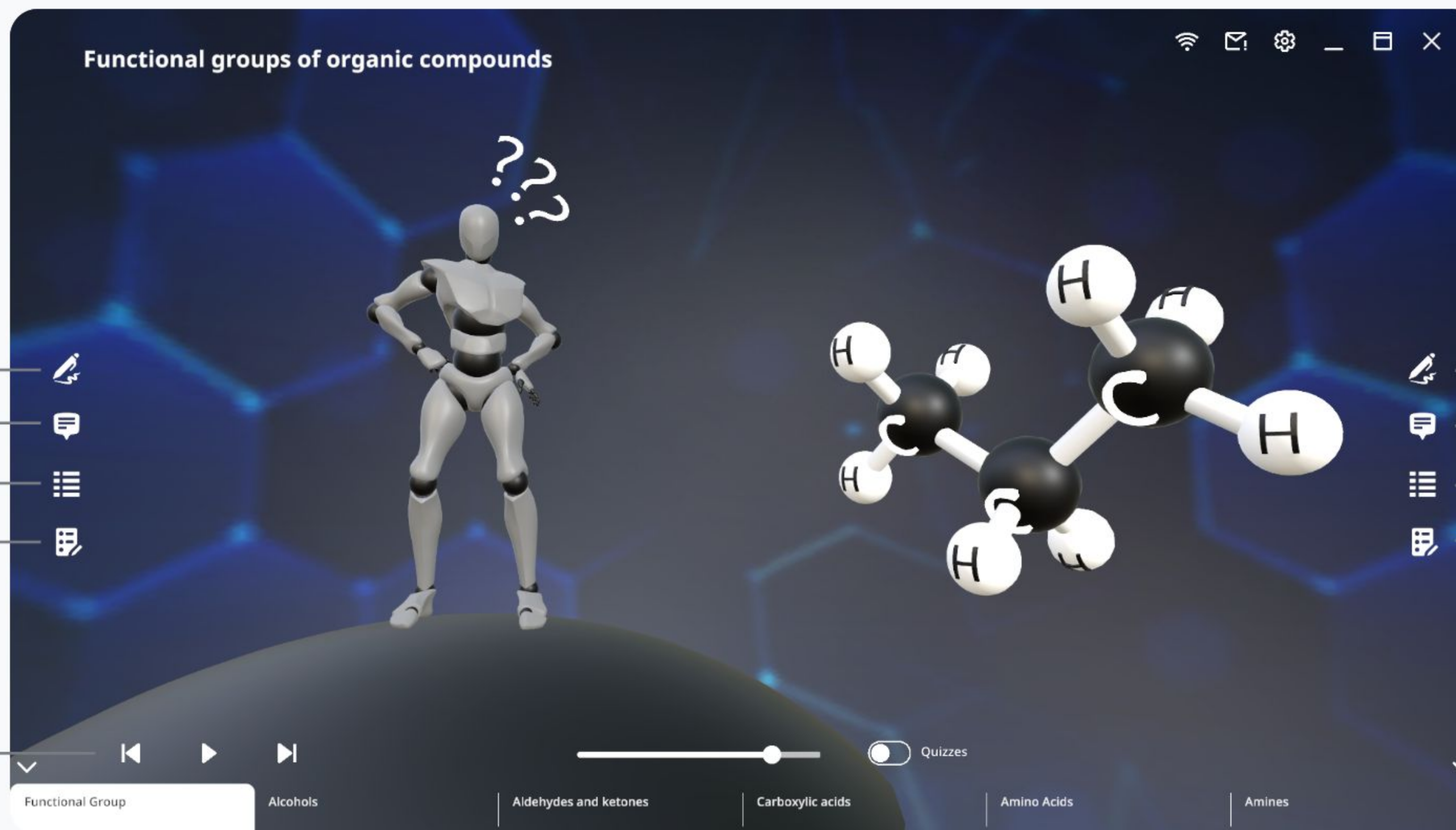
Object Descriptions

Animation Frame List

Topic-Related Questions

Pause / Play and Forward / Backward Buttons

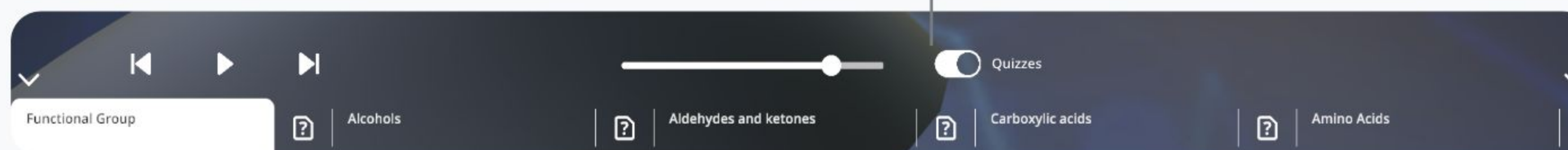
You can move these buttons to the right by clicking the "Frame List" button on the right



Buttons are duplicated on both the left and right sides for ease of use on an interactive panel.

You can hide the animation frame panel.

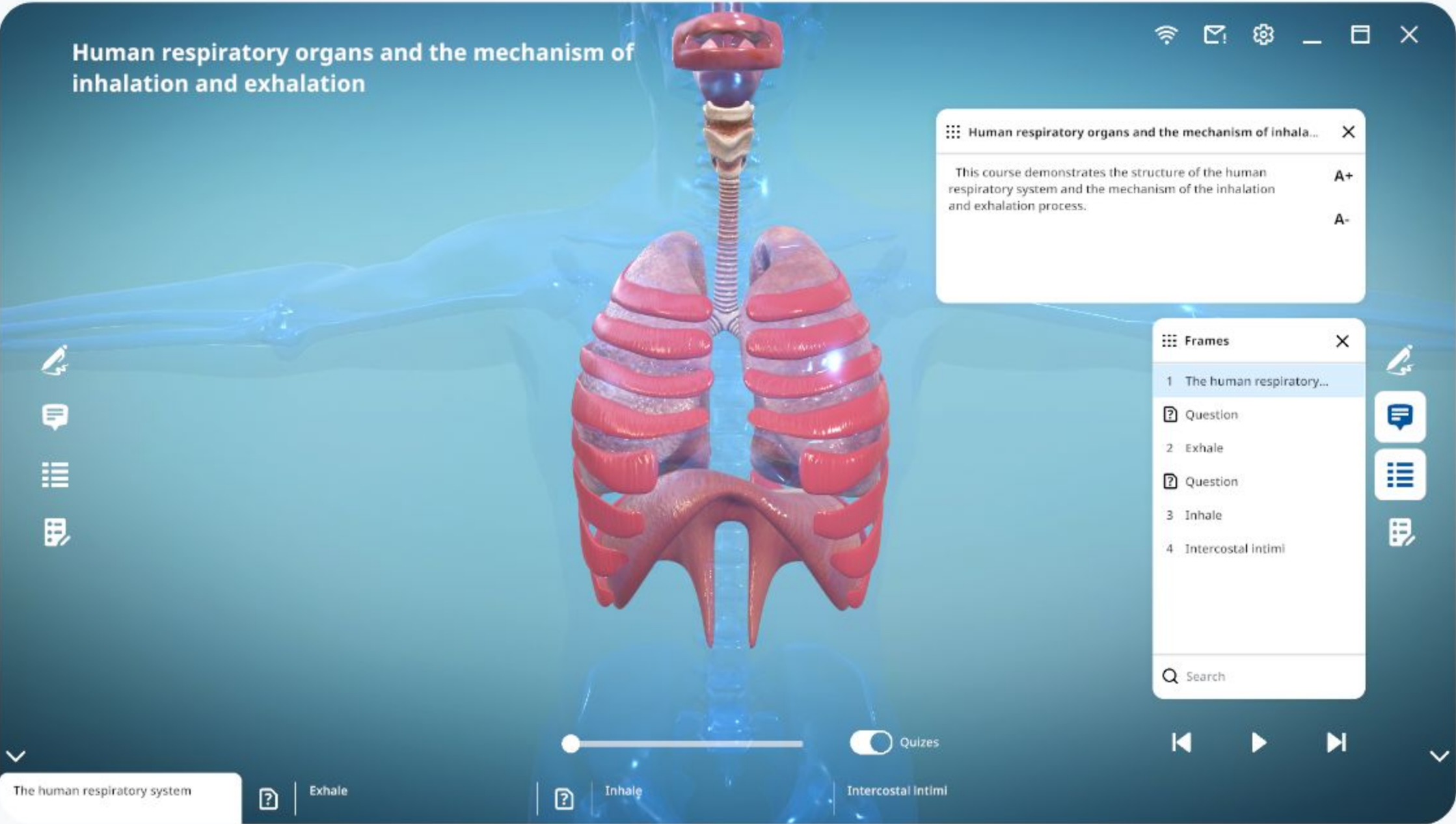
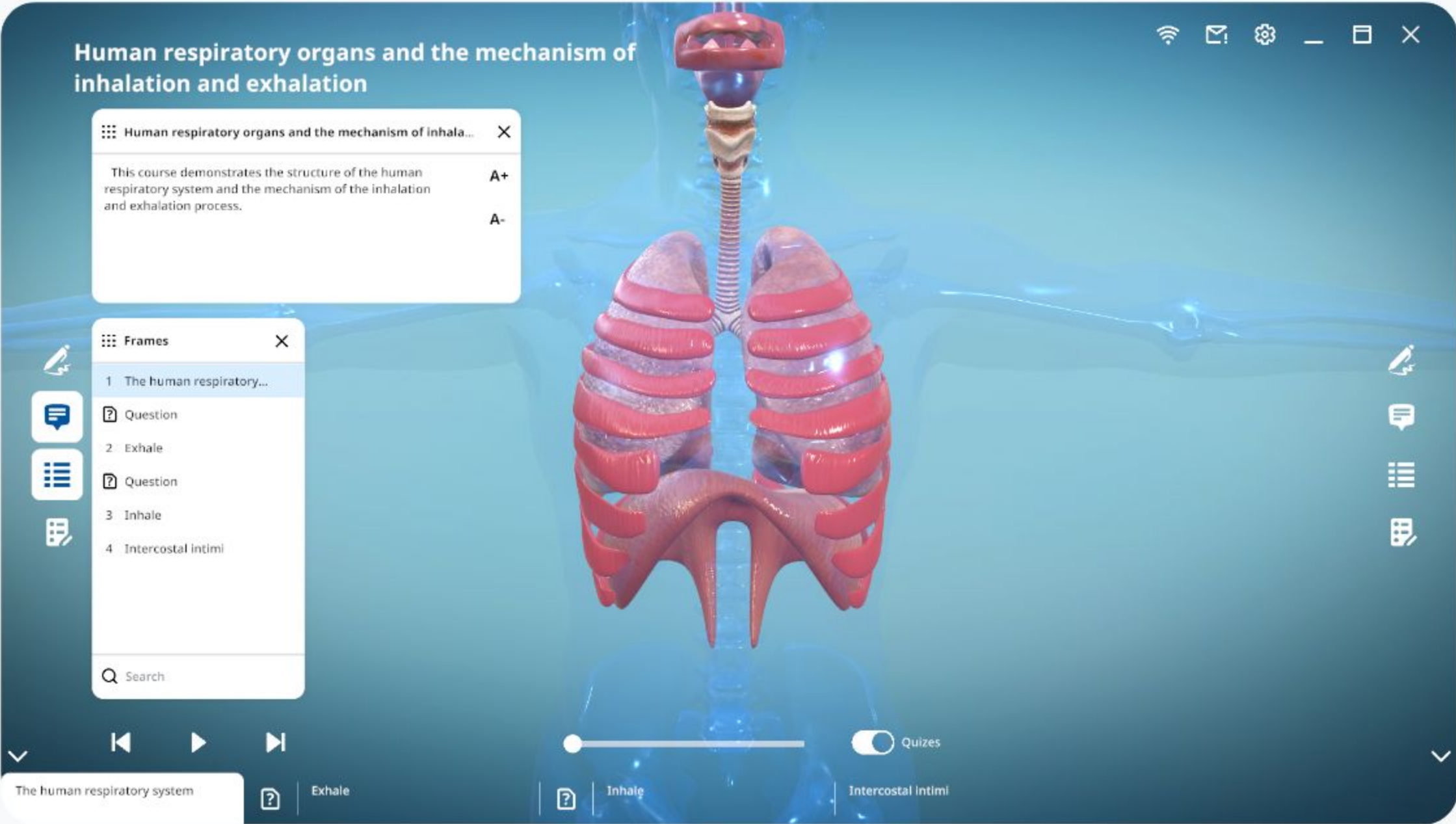
By enabling "Quizzes," questions related to the previous frame will appear between animation frames to reinforce the topic.





# Function Duplication on the Left and Right

Depending on which side of the board you are on, you have quick access to the main functions.

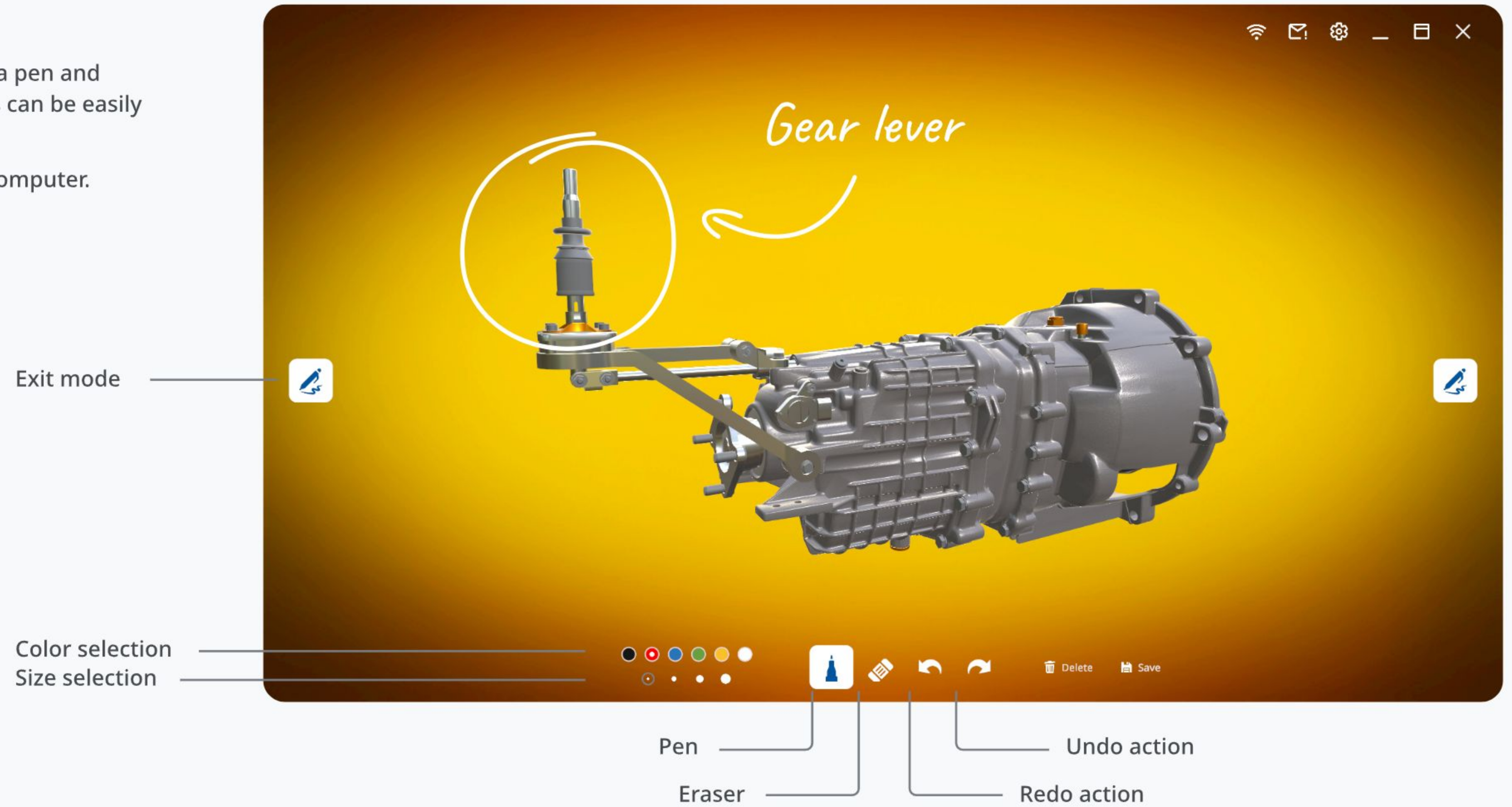




# Drawing

In drawing mode, you have access to a pen and an eraser. The line color and thickness can be easily adjusted.

You can also save the image to your computer.





# Quiz


In each lesson, there are several questions of two types to reinforce the topic: questions with 4 answer options, and questions with 2 options - True / False.


Under the development is the Multi-Quiz mode, where students can be connected to the interactive board and collectively take the quiz in the Roqed Student mobile app.

×

### Take a Quiz

Choose the type of the quiz. After completion, you can save the report.

 **Single Mode Quiz**  
Questions related to the completed lesson.

 **Multi-Quiz SOON**  
Connect to the board via the mobile app. All students need to be connected to the same Wi-Fi network.

The image shows a screenshot of the Roqed interactive board interface. At the top left, the title 'Adrenalin' is displayed. In the top right corner, there are icons for Wi-Fi, email, settings, and window management. The main area features a 3D animated background of an astronaut in a white suit standing on a reddish-brown rocky surface, with a crashed spaceship in the background under a bright yellow sky. A white text box in the center contains the question: 'Choose a second name for the hormone adrenaline.' At the bottom, there are four answer options, each in a white box with a colored number: 1. Epinephrine (pink), 2. Endocrine (blue), 3. Norepinephrine (orange), and 4. Norepinephrine (purple). Each option has a 'Skip' button above it. On the left and right sides of the 3D scene, there are small icons of a microscope and a list.

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# Saving Reports

After completing a quiz and exiting the lesson, the system will prompt you to save the results as a PDF report.

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Save test results?

Да

Нет

First Name: Isabella  
Group/Class: 9  
Date: 11-09-2023 10:31  
Time spent: 00:31  
Category: Biology  
Model: Adrenalin

Test name	Correct answer	User answer
Is the following statement correct? The primary fastest reaction is carried out by the nervous system, after which the slower reaction of the endocrine system takes over.	true	true
Choose a second name for the hormone adrenaline.	Epinephrine	Norepinephrine
Name a couple of organs in which the hormone adrenaline is secreted	adrenal glands	Kidneys
Note what does NOT happen to the heart under the influence of adrenaline.	Increased release of blood from the ventricles into the atria	The heartbeat is racing
Is the following statement true? Under the influence of adrenaline, the blood supply to the digestive system decreases, which slows down the metabolism.	true	true
Accelerating the transport of which substances, is the purpose of rapid breathing in a situation of stress to the muscle cells?	glucose and oxygen	urea



## Study of Structure

This mode represents a sandbox of a virtual 3D world. Teachers and students can analyze, rotate, and explore models from any perspective. The exploration mode provides a full kinesthetic learning experience.





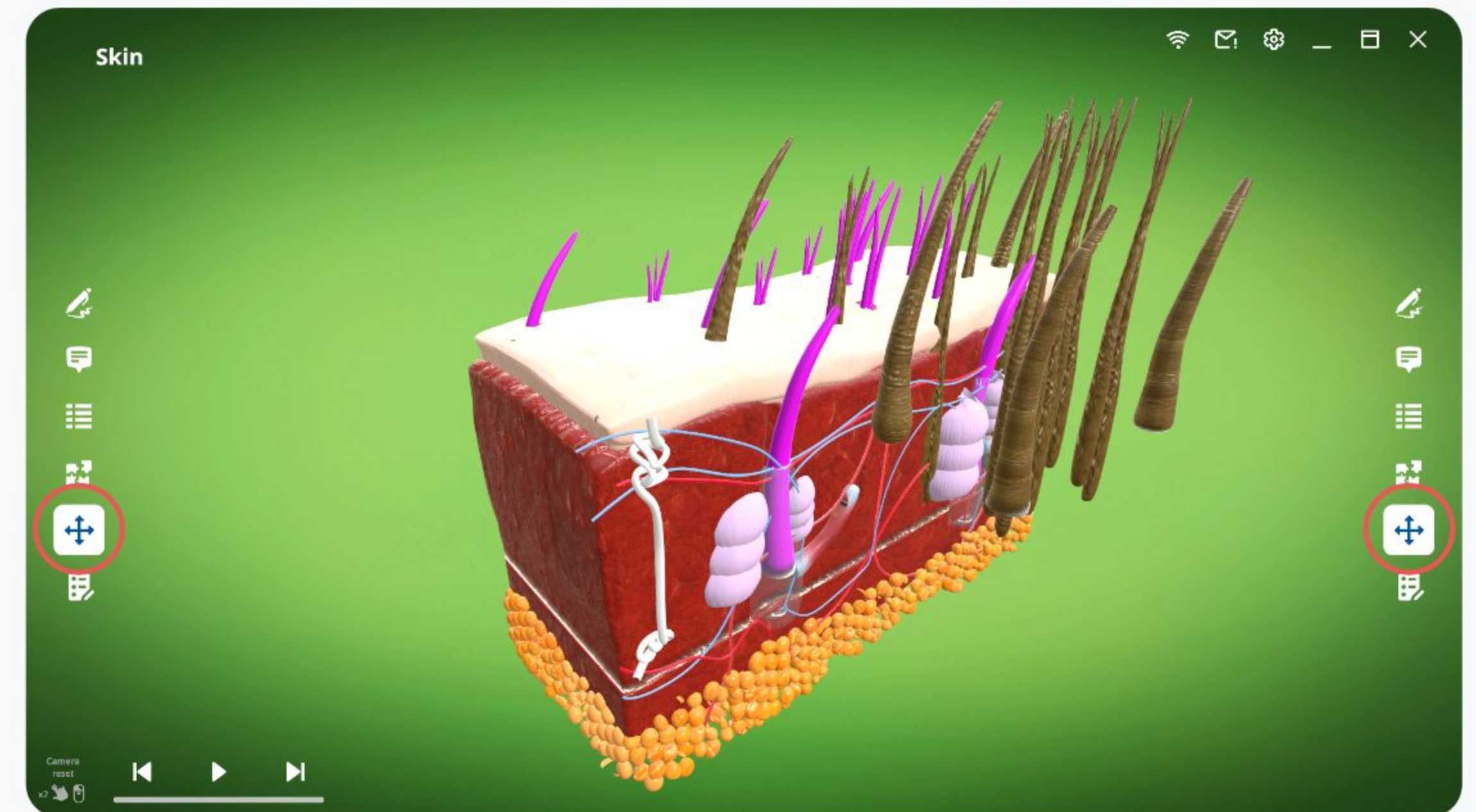
# Disassembly

Disassemble the model into individual components, rotate, zoom in, and examine all the small details.



# Interaction

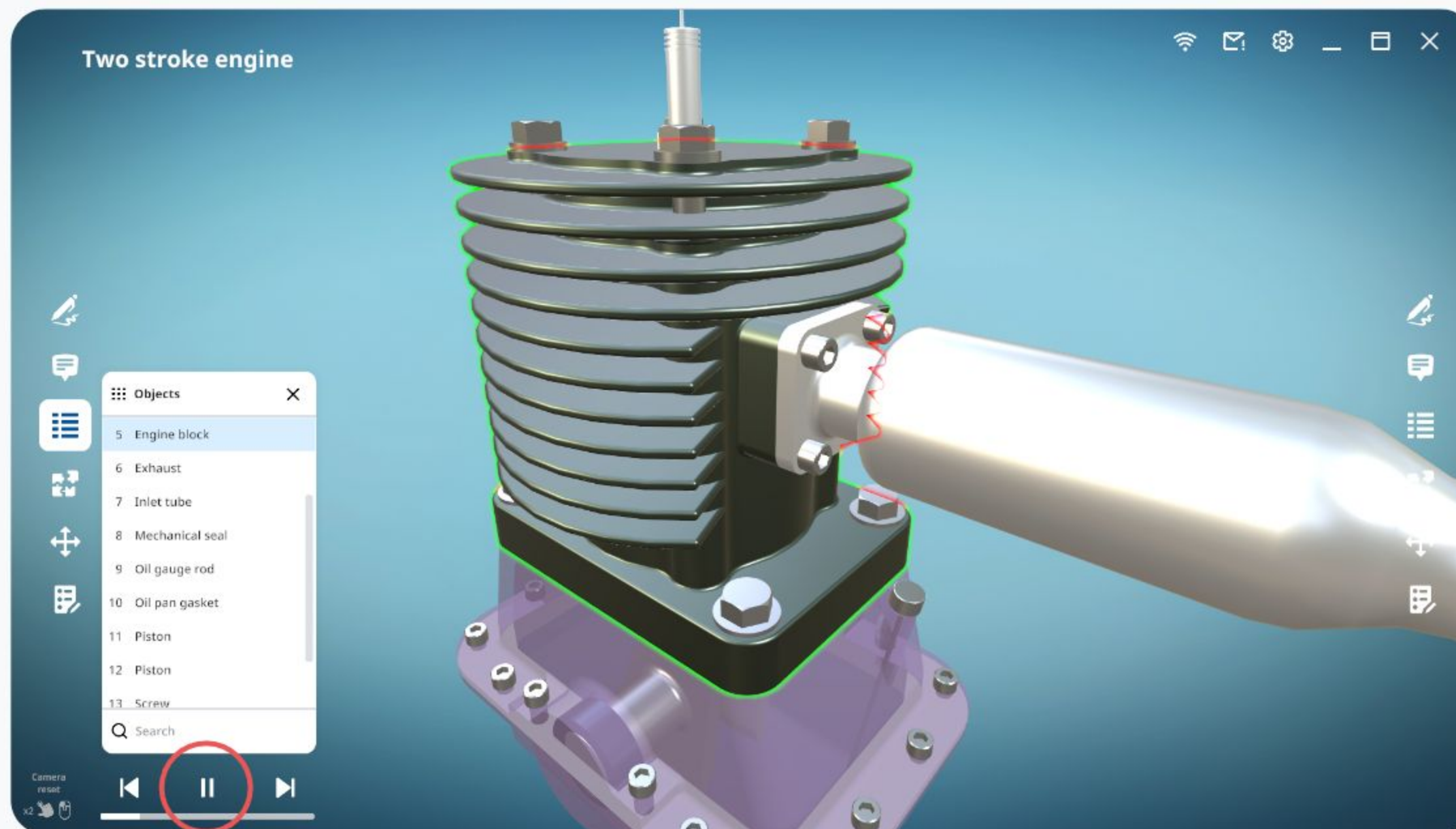
Interact with each part of the model.





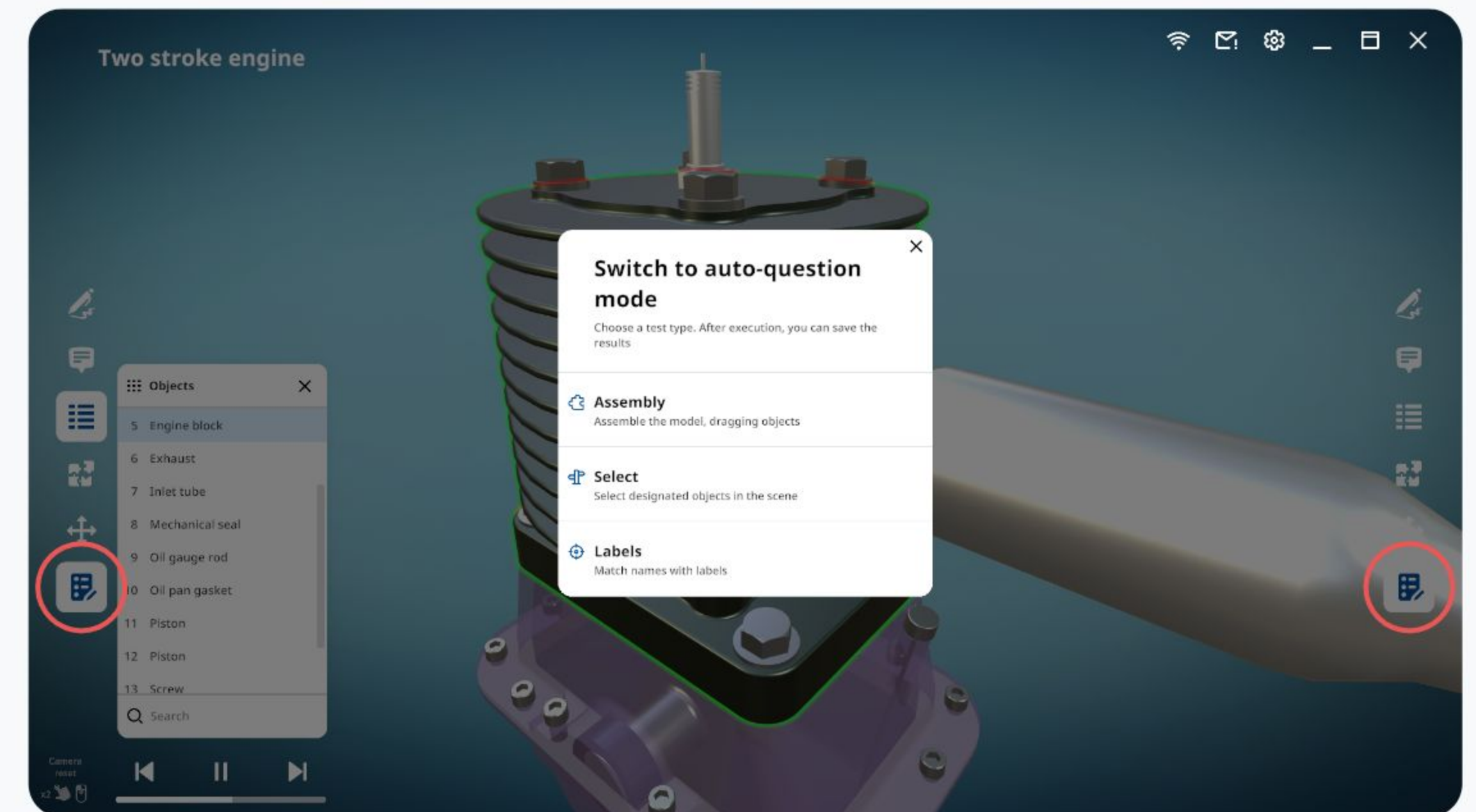
## Auto-Exploration

Initiate auto-exploration by clicking the "Play" button. The camera will orbit around objects from all angles, while the off-screen voice will provide descriptions of each object.



## Auto-Questions

To reinforce the learned topic, you can use the following three types of tasks: Assemble, Select, and Label.





# Auto-Questions

## Assemble

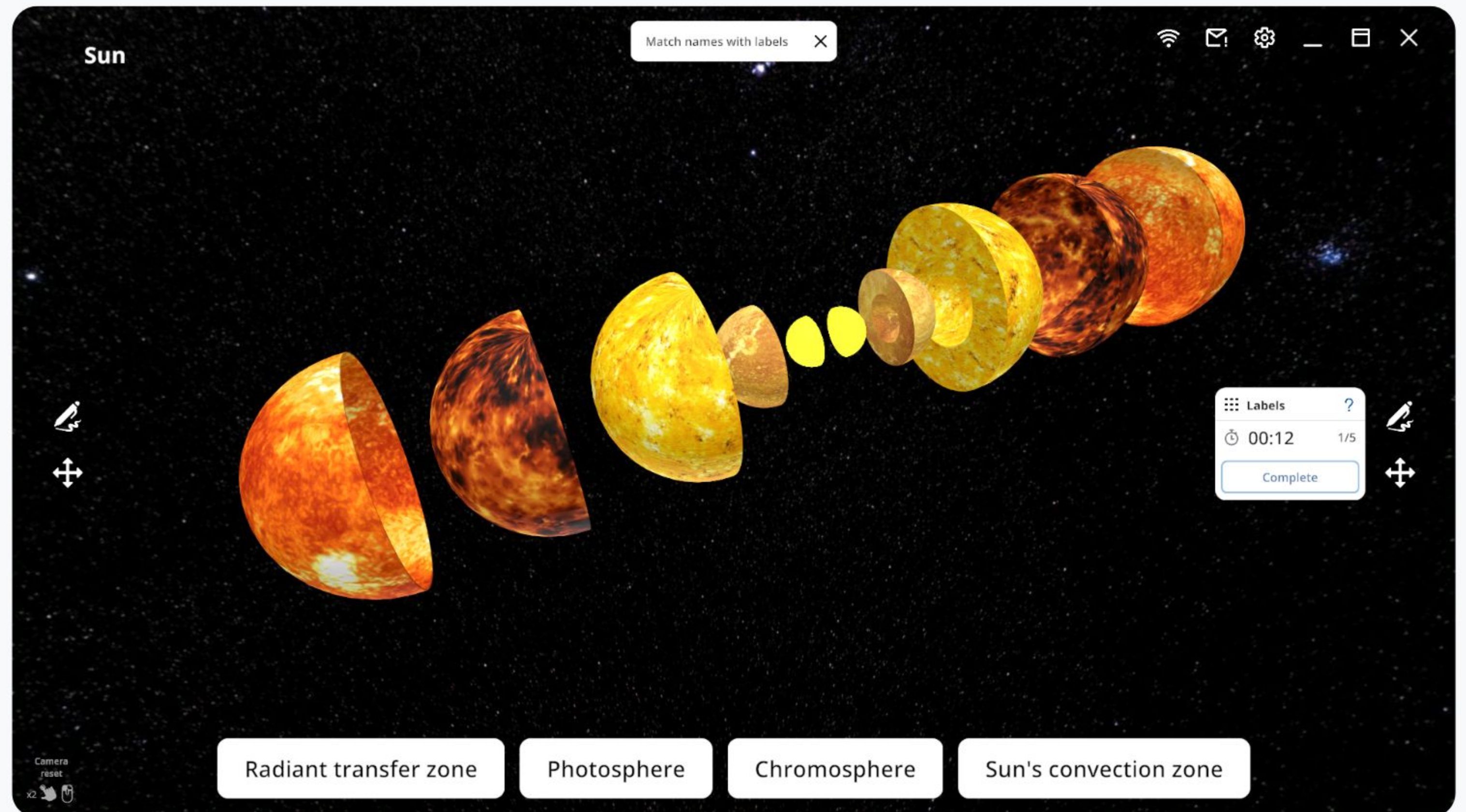
Students are tasked with assembling the model by dragging its parts into place.

## Select

In this type of task, students need to select the designated objects in the scene.

## Label

In this type of task, students are asked to match names with objects on the scene.



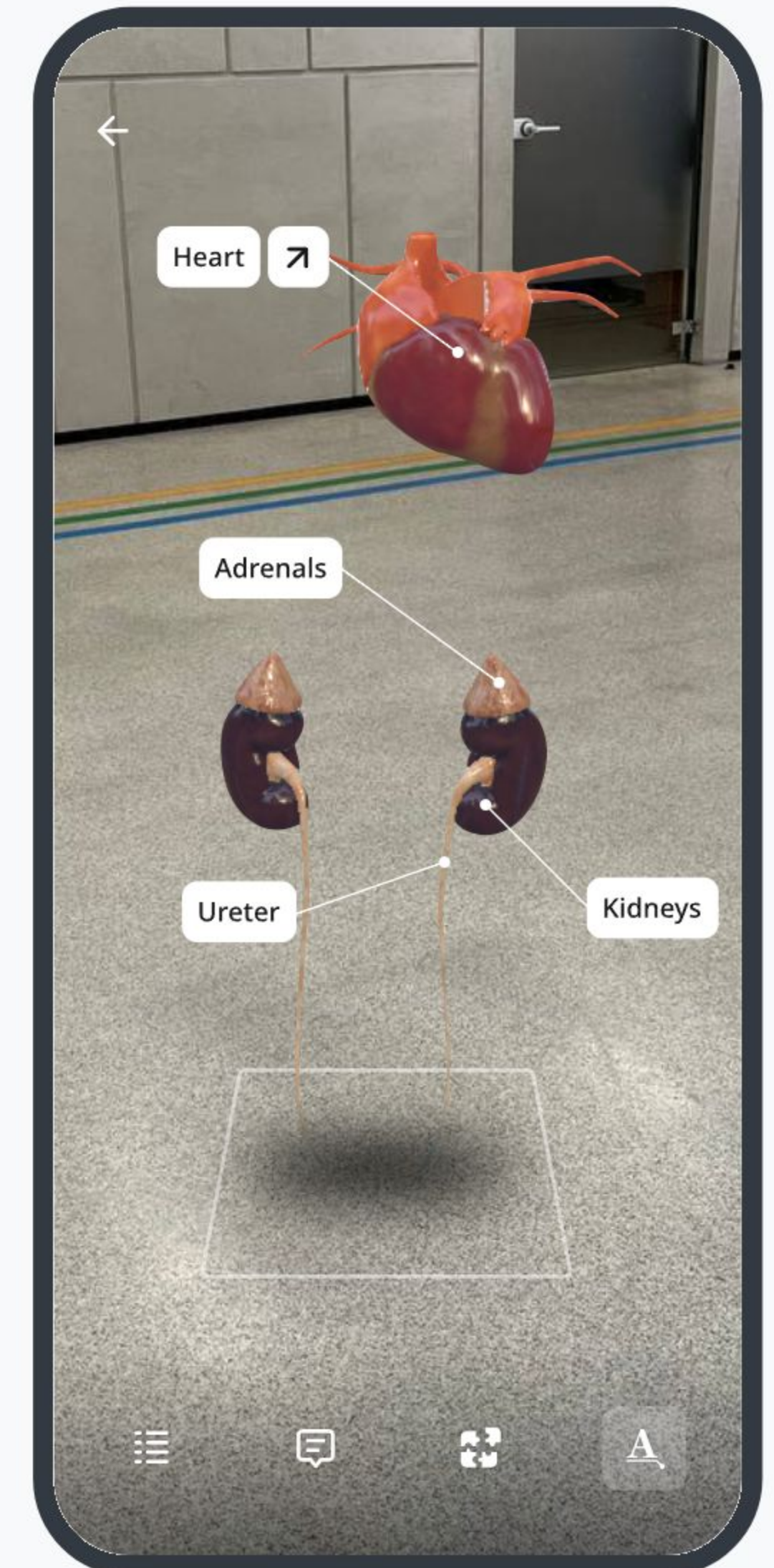
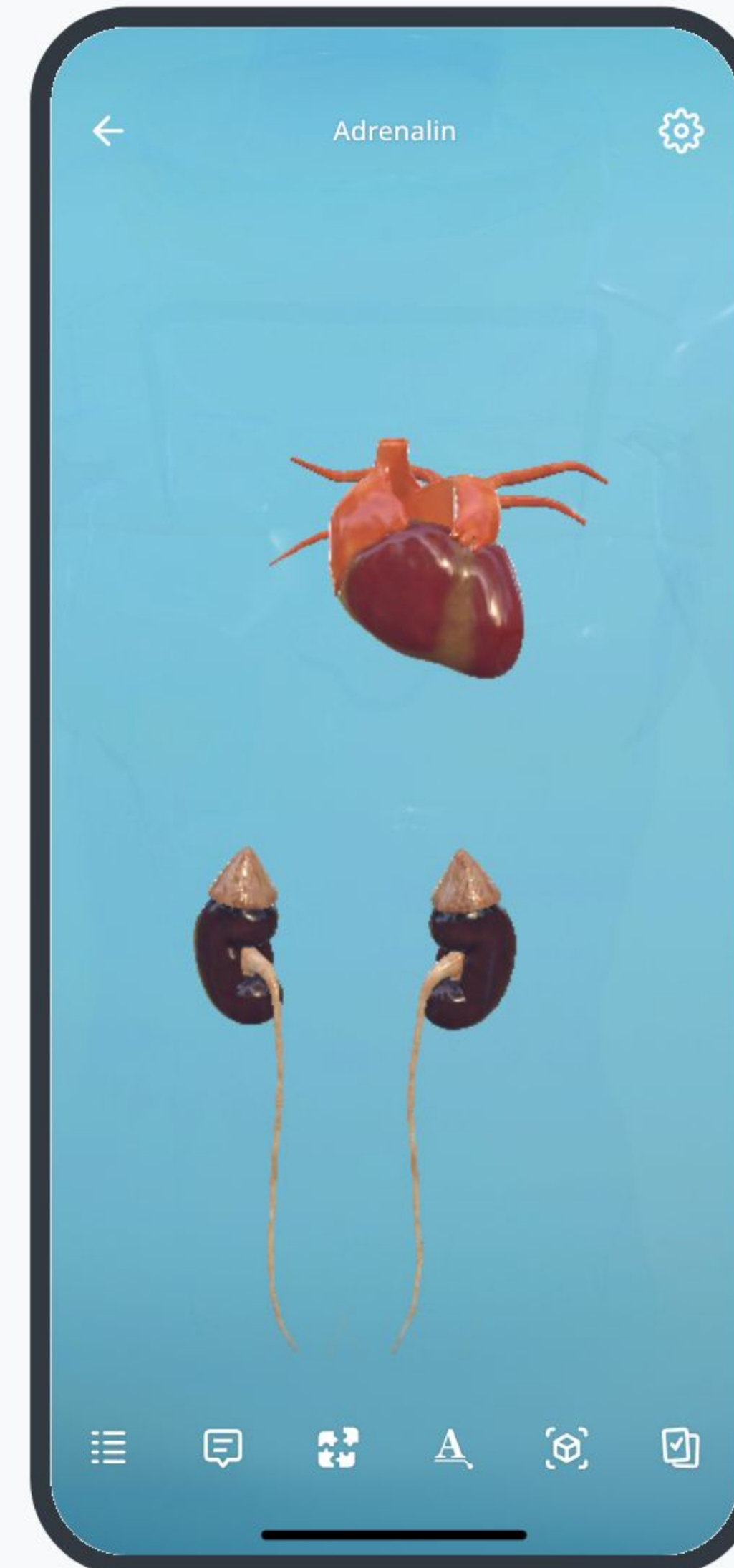
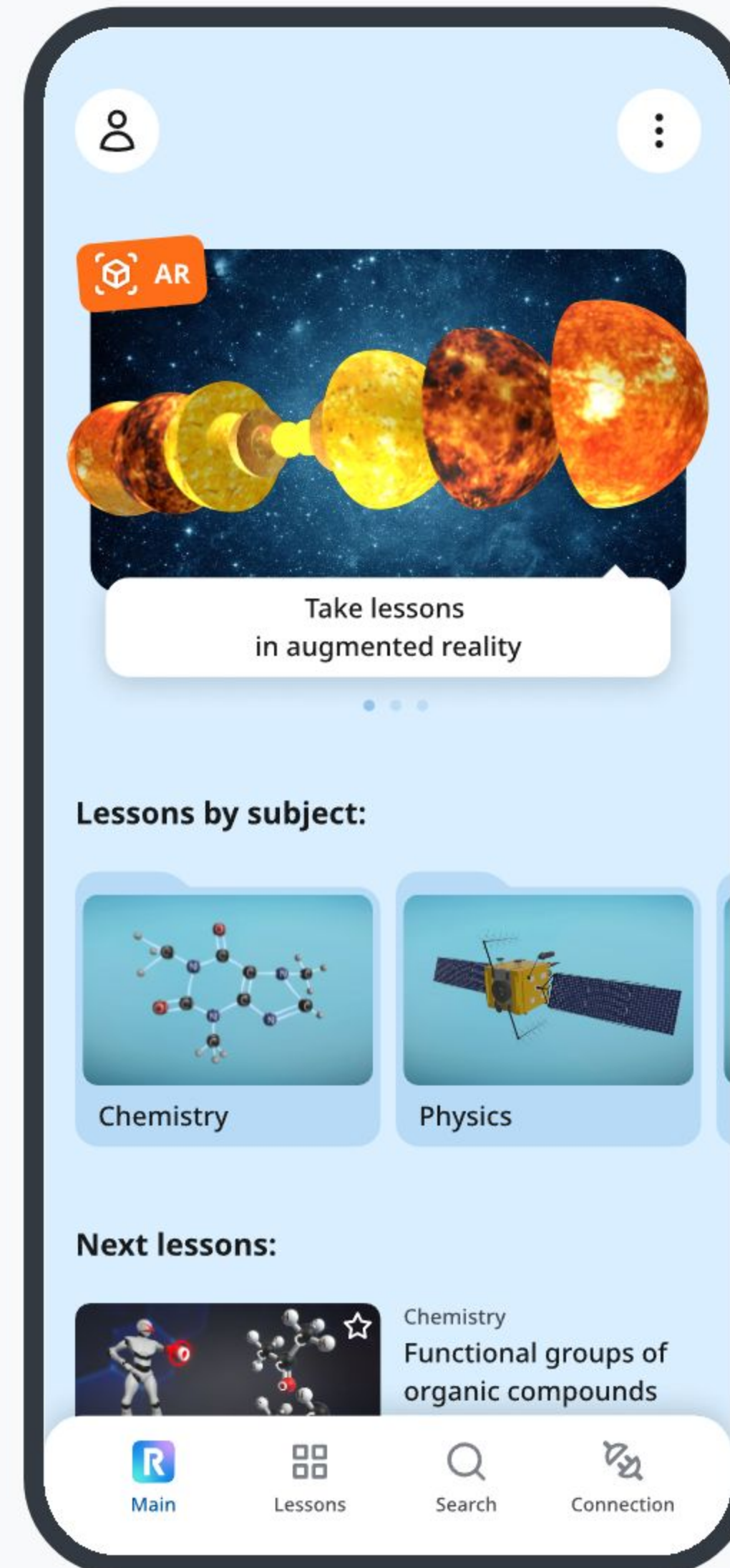




## Roqed Student

We are currently developing the Roqed Student mobile application, which provides access to all lessons from the desktop version.

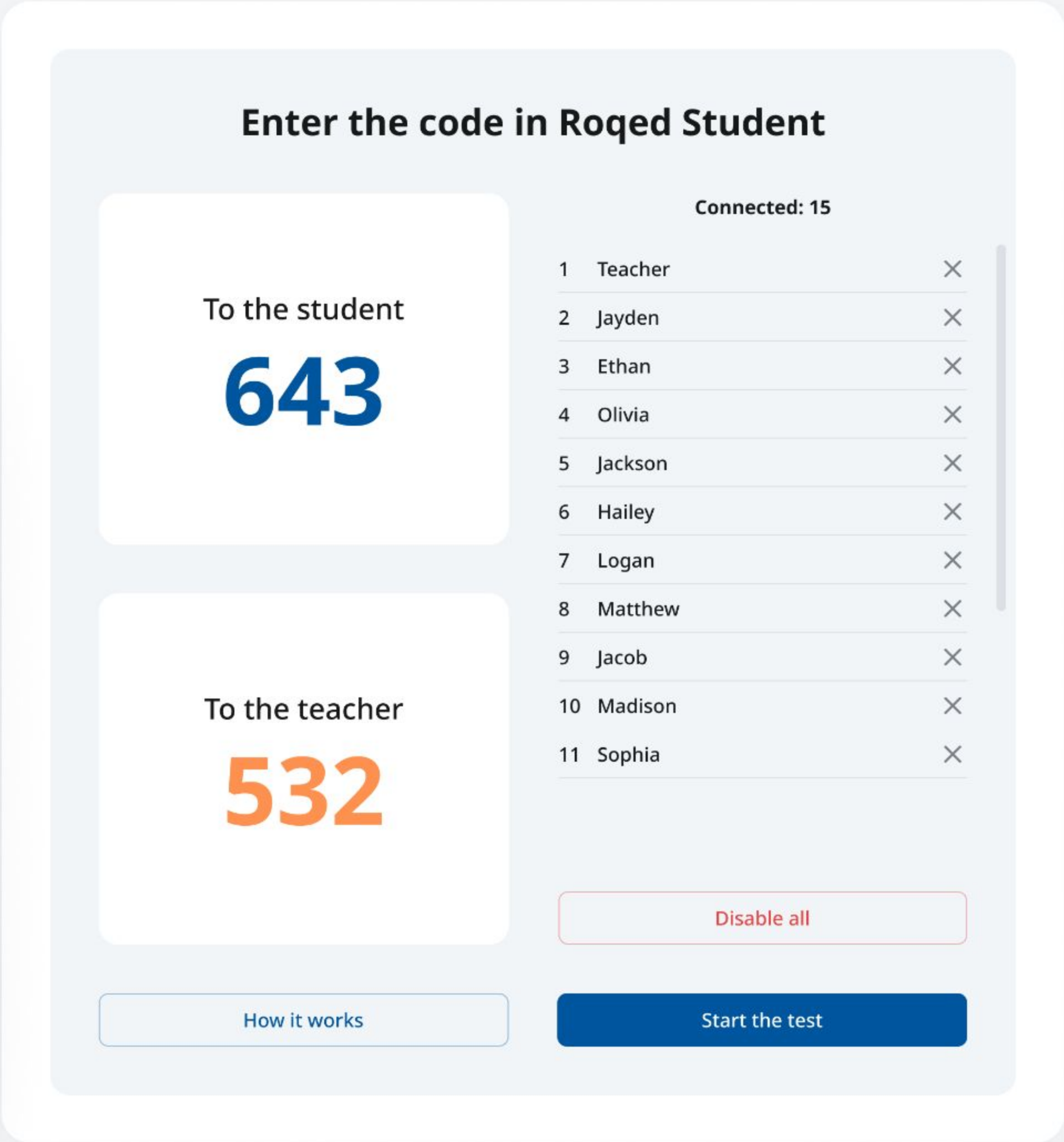
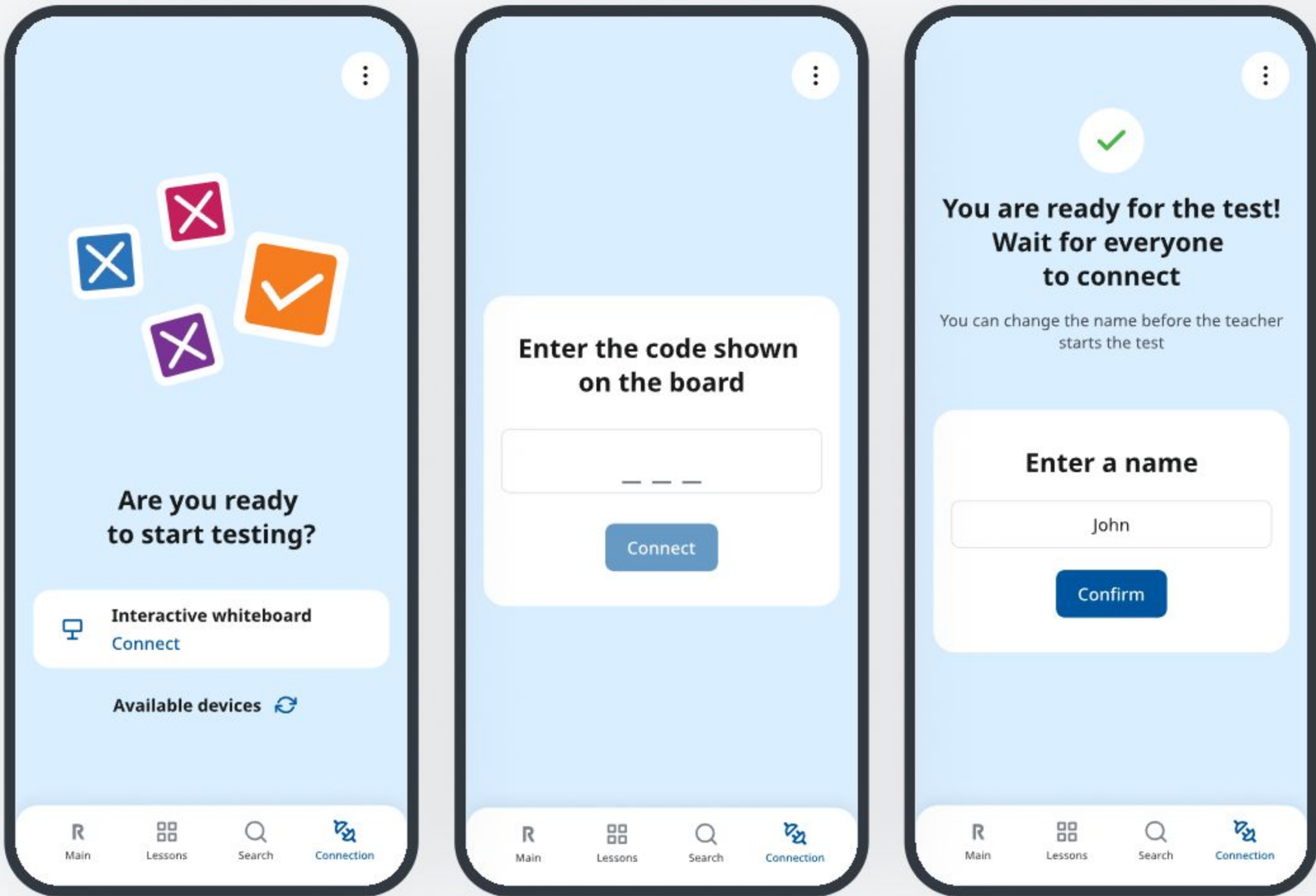
In this app, we have implemented augmented reality technology, allowing you to project virtual objects into the real world.





# Connecting to the Interactive Board

Using the Roqed Student app, you can connect students to the interactive board for collaborative test-taking.







Visit [www.roqed.com](http://www.roqed.com) for more information

Contact us by email: [info@roqed.com](mailto:info@roqed.com)