

# ROQED

Learning through immersive and interactive experiences.

## **SALES OFFICE**

55/8 Mangilik Yel Ave., Nur-Sultan 020000,  
Special Economic Zone Astana Hub

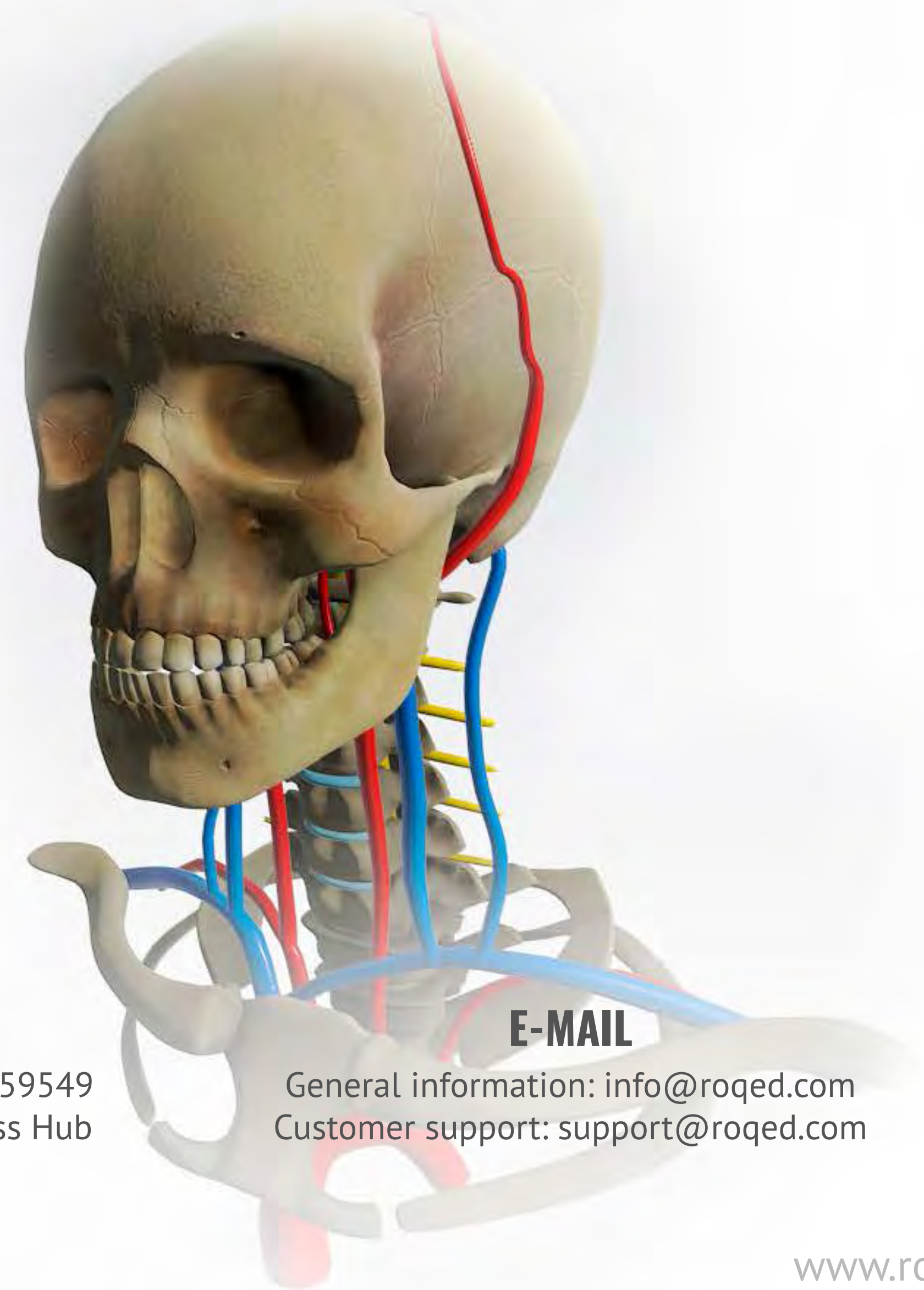
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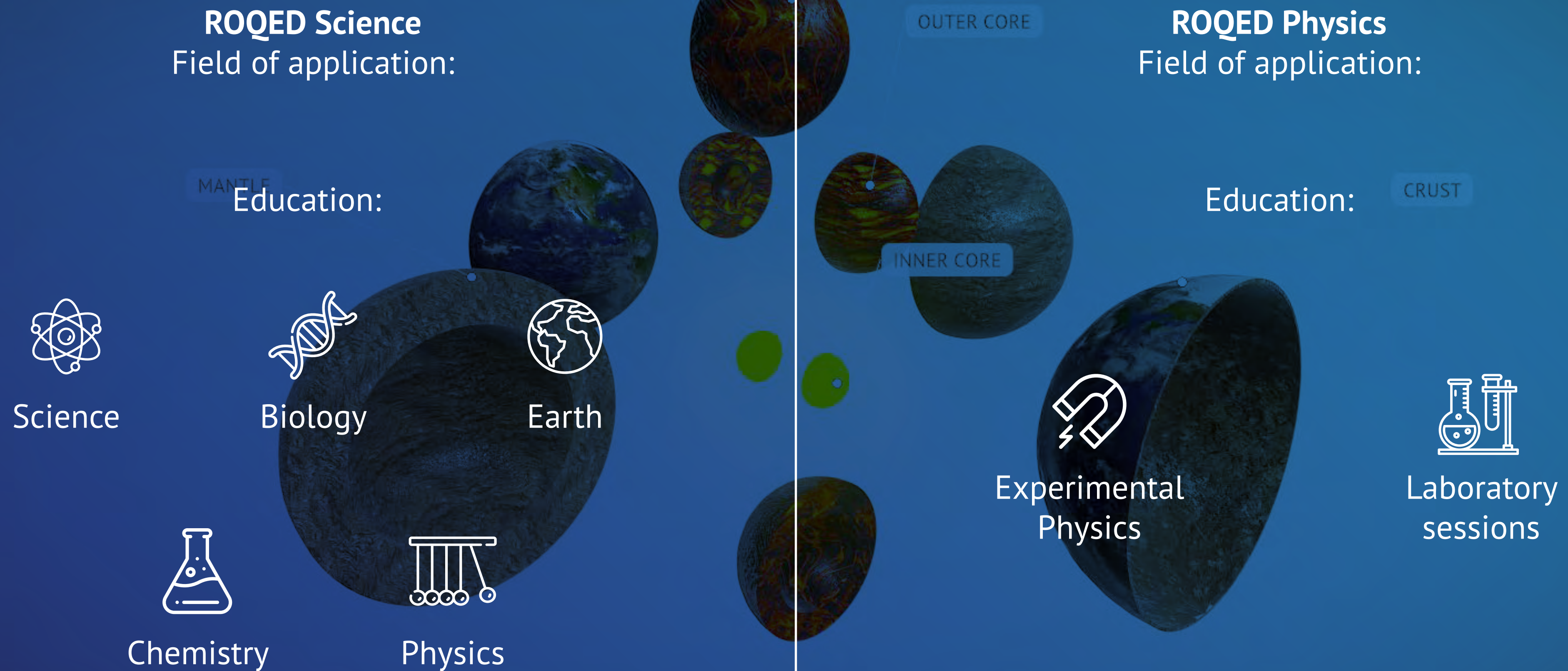


Earth

ROQED

# ROQED IS A GLOBAL EDUCATIONAL TECHNOLOGY COMPANY

Applications for learning science and practicing skills in virtual and interactive environment





## ROQED Science™

Technology of immersive education along with a comprehensive package of detailed interactive experiences for learning and exploring thousands of detailed and fully dissectible models for biological sciences, chemistry, physics, earth science and more.

ROQED Science supports the following languages: English, Spanish, Arabic, French, German, Italian, Turkish, Russian, Ukrainian, Hebrew, Lithuanian and Estonian.

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# An example of the topics and difficulties teachers face during traditional lecturing versus lecturing with Roqed Science

## TOPIC:

Respiratory system.  
Inhalation and exhalation mechanism

## CONSTRAINTS

Many students find it difficult to understand the interactions between rib, diaphragm and lung movement. Donders' model does not fully show this system, and it also has to be done anew every year, since they tend to wear out over several lessons and do not show effectively the modeling of the respiratory system. It also takes time to make them.

## USING ROQED SCIENCE

A user can view the movement of each gas exchange element in an exploded view. Students are also able to create their own animations using the models, which will increase their involvement in the study of the respiratory system.

ROQED Science allows users to delve deeper into the study of the topic, moving on to more detailed animation and description by reference to the models. i.e. a detailed study of gas exchange in the alveoli is also provided for differentiated learning purposes.



# SYSTEM REQUIREMENTS

| ROQED Science |                       |                    |
|---------------|-----------------------|--------------------|
| Parameter     | Minimum               | Recommended        |
| CPU           | Intel Core i3 6700    | Intel Core i5 7600 |
| GPU           | Intel HD Graphics 560 | Nvidia GTX960 2 Gb |
| RAM           | 4 Gb                  | 8 Gb               |
| OS            | Windows 10 64-bit     | Windows 10 64-bit  |
| HDD           | 128 Gb                | SSD 128 Gb         |

| ROQED Science Mobile/Tablet |                |                |
|-----------------------------|----------------|----------------|
| Parameter                   | Minimum        | Recommended    |
| CPU                         | Snapdragon 645 | Snapdragon 845 |
| GPU                         | Adreno 630     | Adreno 630     |
| RAM                         | 3 Gb           | 4 Gb           |
| OS                          | Android 8      | Android 9      |
| HDD                         | 1 Gb           | 3 Gb           |



# LICENSE TYPE

| Features                          | Teacher           | Student      |
|-----------------------------------|-------------------|--------------|
| Offline access                    | Yes               | No           |
| Max screen resolution             | Unlimited         | 1280x720     |
| Platform                          | Windows & Android | Android only |
| Access to all courses and models  | Yes               | Yes          |
| Standard subscription             | 1 year            | 1 year       |
| Slides regime for lesson planning | Yes               | No           |
| Compatible with flat panel        | Yes               | No           |

Download ROQED Science by following the link below:

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The study of motion of the body thrown horizontally.



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## ROQED Physics™

Conducting experiments using ROQED Physics is an engaging and enthralling process. The app contains over 250 laboratory instruments and it is an ideal environment for preparing and conducting experiments of any complexity based on the school curriculum.

Pre-installed labs help teachers easily master the program and create their own experiments.

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- 

Spring with ruler
- 

Suspended load
- 

Dynamometer
- 

Measuring cylinder
- 

Tripod Lever
- 

Glass of 250 ml
- 

Aquarium
- 

Bar wooden with an ear
- 

Test tube
- 

Pea grain
- 

Electric scales
- 

Float
- 

Board
- 

Metal ball with an eye

Suspending the weights to the spring,  
that the modulus of elasticity is directly proportional  
Stretched length of the spring is the difference between the length  
of the spring and the length of the undeformed spring

Hanging cargo

| ROQED Physics |                    |                    |
|---------------|--------------------|--------------------|
| Parameter     | Minimum            | Recommended        |
| CPU           | Intel Core i3 6700 | Intel Core i5 7600 |
| GPU           | Nvidia GTX760 2 Gb | Nvidia GTX960 2 Gb |
| RAM           | 6 Gb               | 8 Gb               |
| OS            | Windows 10 64-bit  | Windows 10 64-bit  |
| HDD           | 3 Gb               | 2 Gb               |



# LIST OF CONTENT

Determination of body acceleration with uniformly accelerated movement  
Study of a horizontal projectile motion  
Study of a circular motion under the gravity  
Investigation projectile motion launched at different angles  
The study of an elastic deformation  
The study of the law of Archimedes  
Checking the conditions for floating bodies in a liquid  
Definition of work done with uniform body lift  
Determination of the equilibrium condition of the lever  
Determination of the efficiency of an inclined plane  
Determining the acceleration due to gravity using a mathematical pendulum  
Determination of the propagation velocity of surface waves  
Determination of wavelength and period of wave oscillations  
Determination of the coefficient of friction

Comparison of the work of the elastic force with a change in the kinetic energy of the body  
Determination of the density of liquids and solids  
Comparison of the amount of heat when mixing water of different temperatures  
Determination of specific heat of melting ice  
Relative humidity measurement  
Atmospheric pressure measurement  
Measurement of surface tension of water  
Comparison of molar heat capacities of metals  
The study of the isothermal process  
Study of the isobaric process  
Assembly of an electric circuit and measurement of current and voltage in its various sections  
Investigation of the dependence of current strength on voltage in a circuit section.  
Ohm's law test  
Studying serial and parallel connection of conductors  
Measurement of work and electric current power  
Studying Ohm's Law for a circuit Section

Exploring Mixed Conductor Connections  
Studying the properties of a permanent magnet and obtaining images of magnetic fields  
Assembly of an electromagnet and study of its action  
Determination of EMF of a current source and its internal resistance  
The study of the phenomenon of electromagnetic induction  
Determination of the charge of a monovalent ion  
Observation of the effect of a magnetic field on current  
Observation of light interference and diffraction  
Determination of the light wave length using a diffraction grating  
Determination the focal length and optical strength of the collecting lens  
Determination of the refractive index of glass using plane parallel plates





# LICENSE TYPE

ROQED Physics lab has a single type of license both for students and teachers

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## OVERVIEW & DEFINITION

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