



in Aurelium

Hello, I'm Aurel. This is a quiz assessing the knowledge you will or have already gained here. Aurelium is divided into 6 sections distinguished by colours. Look around the hall and find a map showing these sections. It will help you to navigate between the exhibits while looking

for the correct answers.

for high schools

Can we build a good functioning battery out of two same-metal electrodes? If yes, why?	What is perpetuum mobile? How is it possible that we have a working perpetuum mobile exhibit?
If not, why?	
	Hydraulic press multiplies our:
Levitation of the UFO in our centre is possible thanks to the superposition of the two forces acting on the UFO at the same time. These forces are:	speed force
	power
	according to Pascal's law. Explain your answer and using your own words describe the
Which colour of the visible spectrum corresponds to the 650 nm wavelength?	basic idea behind this principle.
5	
Which exhibit allows us to determine this?	A wooden disc or plastic ball moves at the edge of the horizontal plane
	7 aster with the same speed slower
What unit do we use to measure colour temperature?	compared to the centre of the plate.
The orange light is:	In the exhibit Centre of gravity, if we move a cylindrical
The orange light is: warm	body close to the vertical rod, the rod's position
cool	8 > will change(how?).
	If we move it towards the end-stop, the rod's position
Circle the correct answer: Foam aluminium is:	will change(how?)
LIGHTER/HEAVIER than regular aluminium	
CONDUCTIVE/NON-CONDUCTIVE material	
REACTS/DOESN'T REACT to the presence of a magnet	What is a biosignal and how is the information from the environment perceived by the brain?
Which exhibits demonstrate energy harvesting from sustainable sources?	
	11
10	

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How it is going?
Did you find all the exhibits?
My tip:
You can find some information
on the information panels

In a right-angled triangle, the square of the hypotenuse side (the longest side) is equal to the sum of squares of the two other sides.

Name this principle and draw its explanation.

12

What type of an internal combustion engine has 40% efficiency? Using your own words explain what a combustion engine efficiency is.



The shape of bubbles ascending in the glass barrel depends on the specific property of liquids – viscosity. Viscosity describes the internal friction of a moving liquid. In the following statement, circle the correct answer: Oil is:

more equally less viscous

than water.

A solar cell works on the principle of

(what) effect,

so it directly converts (type of energy)
to (type of energy).

Thermovision displays temperatures of the environment or object surface. Temperatures around

20°C will be displayed ascolours.

30 °C will be displayed ascolours.

When we release a ring in the "black hole", its trajectory will be spiral. Its (physical quantity) will gradually increase because the radius of the ring's trajectory gradually

increases / decreases.

Choose the correct answer: The Bridge Tension Exhibit

19

SHOW DOESN'T SHOW our actual weight. Explain why.

20

What units are used to measure sound frequency? People can hear sound frequencies between

..... to of these units.

The results based on your points:

20 - 18 You are a future scientist

You enjoy science, you are curious and like to learn

You don't quite get in now, but next time you'll surely improve

9 - 0 You may not be a future scientist but you are definitely talented in some other area

Bonus question:

Do you know which famous person is sitting next to Aurel Stodola on our photo wall banner?







aurelium_zcv