



## BOOKINGS

Visit our homepage: [www.julab.de](http://www.julab.de)

There, you will find:

- topics
- upcoming events
- booking requirements
- registration form
- free newsletter

## FEES

### School classes

Experimenting at JuLab is free of charge for school classes. The cost of an obligatory lunch must be paid by each participant. Current fees for other offers are listed on our homepage: [www.julab.de](http://www.julab.de)

## CONTACT

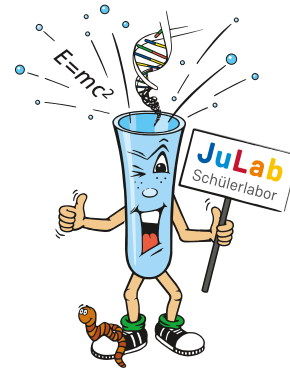
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In August 2010, Forschungszentrum Jülich was certified within the scope of the “audit berufundfamilie” initiative. Jülich has thus made a commitment to continuously define and implement measures that improve the reconciliation of work and family life.



Since 1999, Forschungszentrum Jülich has displayed the Total E-Quality logo, which attests to its equal opportunities personnel policy.



## JULAB

THE SCHOOLS LABORATORY  
AT FORSCHUNGSZENTRUM JÜLICH

### Publication Details

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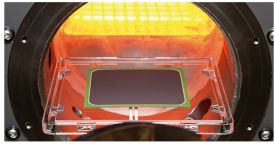
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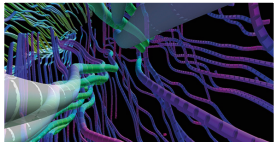
## THE SCHOOLS LABORATORY AT FORSCHUNGSZENTRUM JÜLICH

Since 2005, around 4500 students have visited JuLab each year with their teachers to conduct scientific and technological experiments.

The topics that JuLab covers stem from Jülich's research fields:



### ENERGY



### INFORMATION



### BIOECONOMY

## OBJECTIVES

### JuLab ...

- builds on science and maths lessons at school with an effective, hands-on approach.
- provides information on Forschungszentrum Jülich and its fields of research.
- offers insights into potential careers and encourages budding scientists.

### Students ...

- develop a curiosity for, enjoyment of, and interest in scientific questions and scientific ways of thinking and working.
- get to see state-of-the-art, interdisciplinary research at an authentic educational facility.
- learn about Forschungszentrum Jülich as an attractive vocational trainer and employer.
- experience science as an intellectual adventure.



## WHAT JULAB OFFERS

### Day-long experiment programmes

for all school classes from grade 4 on

### Research and career-choice programmes

for gifted students with a keen interest

### Training courses and experiment kits

for kindergarten and school teachers

### Training courses and work experience

for student teachers

### Experiment programmes for families

for children and their (grand)parents

### Special events

e.g. Girls' and Boys' Day, Science Day, Helmholtz school student congress ...

### "Haus der kleinen Forscher"

Training courses for kindergarten and primary school teachers

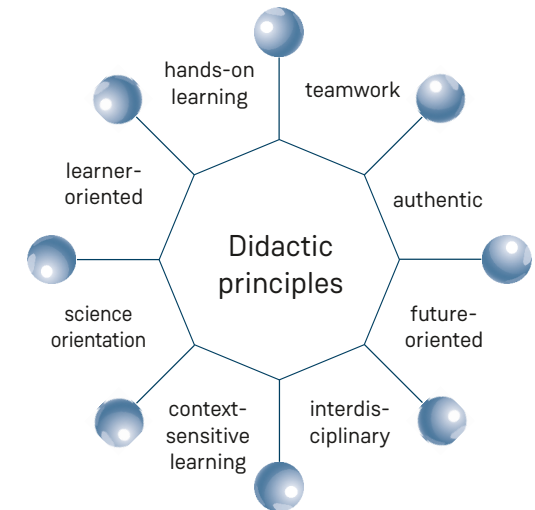


## EXPERIMENT TOPICS

### Examples of some of the topics:

- Electricity – When current flows\*
- Fuel cells – An energy concept for the future?
- GMR – The Nobel Prize in your computer
- Superconductivity – When trains levitate ...
- Radioactivity & radiation – It's all about the dose!
- Soil – More than just dirt?\*
- DNA – Tracking down the double helix\*
- Enzymes – Tools of modern biotechnology
- Lab rally – Competition for analysts
- Biotechnology – Naturally refined
- Simulations – A bridge between theory & practice
- Neurobiology – A stimulating topic

*\* For these topics, JuLab has developed experiment kits that schools can borrow. Teachers should first complete the relevant training course.*



### The didactic concept of the day-long experiment programmes:

- independent work in small groups
- focus on science education
- visit to a science laboratory related to the experiment topic