



[bernadette.trommer@bs.ch](mailto:bernadette.trommer@bs.ch)

061 267 17 78

**Workshop in English for pupils in 3rd to 6th form at Primarschule Basel**

## Electricity Lab

**Moderator: TechLabs**

**Language** English or bilingual

### Activities, Methods

Explore conductivity & electrical circuits! Program a test device, experiment with materials, and create glowing series & parallel circuits that you can turn into art.

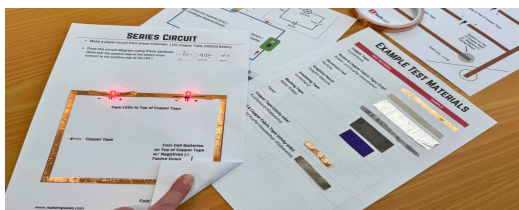
Learning objectives:

- Understanding basic electrical circuits – building simple circuits and identifying key components and their functions.
- Research conductivity – Use the micro:bit to test materials and classify them as conductors or insulators.
- Experiment with circuit configurations – compare series and parallel circuits with paper circuits and observe performance differences.
- Analyze the behavior of electrical circuits – Investigate the effects of component changes (e.g., battery strength, number of bulbs, circuit type) on performance.
- Creative application of knowledge – Designing a custom work of art based on paper circuits. (Additional activity in 2.5- to 3-hour workshops)

Curriculum 21 Competencies:

- NMG 3.3.2 (Stoffe und Stoffeigenschaften) & NMG 5.2 (Elektrische Phänomene und technische Anwendungen)
- COMPUTER SCIENCE MI.2.2.2 (Algorithmen)
- ENGLISH FS2E.6.C.1.3 (Kulturen im Fokus – Handlungen)

TechLabs Workshops can be tailored to your class's level, learning goals, and LP21 competencies. Contact us to create a workshop that fits your needs.



Photographer: TechLabs



## Materials and Resources

micro:Bit  
Electrical circuit components

## Preparation required in advance

Wifi access

## Location:

Your school or TechLabs, ELYS, 215 Elsässerstrasse, 4056 Basel

## Duration:

2 hours

## Number of Participants (min./max.):

Minimum 10, maximum 40 students

## Possible Dates (weekdays, times):

Mo.-Fr. 8:30-12:00

## Cost:

Fr.16 / Child for a 2 hour workshop  
+ Fr.9 / Child / hour for > 2 hours  
+ Fr.100 Transport fee to host  
event at your school

## Contact:

Joel Radvanji  
joel@techlabs.ch  
078 847 05 55Signature3.Name