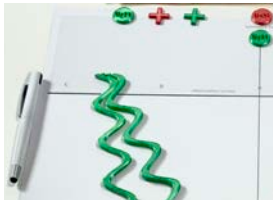
Scienteens Lab EduKit - Wave interference

Technical information

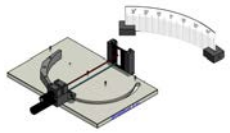
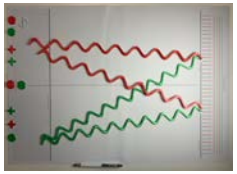
The wave interference kit is meant to be used by educators together with students to facilitate the understanding of the interference phenomena, which are part of our daily life: ripples on water, rainbow colours on shiny birds, oil films and DVDs, noise cancelling headphones, etc.

Using a double slit, the mechanism of constructive and destructive interference is explored.

Hands-on activities help to understand and remember complex physics concepts better. Students can play around with the waves and visualise interference at a double slit model.

During workshops, the Scienteens Lab combines this wave model with Youngs' standard experiment for light diffraction at a double slit.

Experiment and model side by side

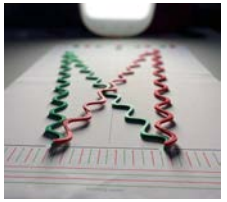



The wave interference EduKit


One kit contains:

- 22 (+4) green wave pieces (532nm), scale 1:50 000
- 5 green „light" indicators (O)
- 4 green „no light" indicators (X)
- 22 (+4) red wave pieces (635nm), scale 1:50 000
- 5 red „light" indicators (O)
- 4 red „no light" indicators (X)
- 4 (+2) blue wave pieces (460nm), scaled 1:50 000
- 5 blue „light" indicators (O)
- 4 blue „no light" indicators (X)
- 1 tissue printed poster (approx. 50cm x 70cm)
- didactic material
- links and QR code for regular updates on our digital files (poster, waves, didactic material)
- one compact box for transport and storage

Commercial information


BUY IT

- High-quality kit with instructions
  All inclusive and ready-to-go
- Price per kit:
  150€ VAT excluded
  175,5€ incl. VAT
- Shipment worldwide

DO-IT-YOURSELF

- Print the kit with a 3D printer
- Original files (.stl, .pdf) available for download under a creative commons license (CC-BY-NC-ND-SA 4.0)
- Poster can be printed as a working surface with a poster plotter or drawn by hand

More information on the website:
uni.lu/lcsb/scienteens_lab/educational_kits