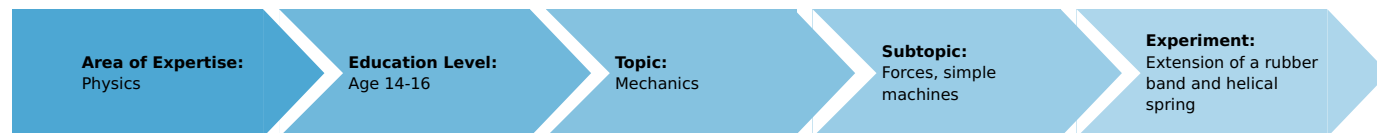


Extension of a rubber band and helical spring

(Item No.: P1251700)

Curricular Relevance



Difficulty



Intermediate

Preparation Time



10 Minutes

Execution Time



10 Minutes

Recommended Group Size



1 Student

Additional Requirements:

Experiment Variations:

Keywords:

Elastic deformation, Plastic deformation, Weight force

Principle and equipment

Principle

Through progressive extension of a rubber band and a helical spring, demonstrate the difference between plastic and elastic deformation.

Equipment

Position No.	Material	Order No.	Quantity
1	Demo Physics board with stand	02150-00	1
2	Hook on fixing magnet	02151-03	1
3	Scale for demonstration board	02153-00	1
4	Weight holder for slotted weights	02204-00	1
5	Slotted weight, black, 10 g	02205-01	2
6	Slotted weight, silver bronze, 10 g	02205-02	3
7	Slotted weight, black, 50 g	02206-01	1
8	Slotted weight, silver bronze, 50 g	02206-02	2
9	Rubber bands, 50 pieces	03920-00	1
10	Helical spring, 20 N/m	02222-00	1

Set-up and procedure

Set-up

Procedure

Observations and evaluation

Observations

Evaluation