

Hooke's Law Lab Report

Max Binkle, 12 MPW, 13.10.2013

1. Aim

In the experiment I wanted to test whether strawberry laces obey Hooke's Law, when they break and – if they obey the law – where their elastic limit is.

The result can be used when eating them e.g. to know when you have to stop to pull when one end is in your mouth.

2. Theory

2.1. The Hooke's Law and stretching work

When you apply **tension** F onto an elastic object it is extended proportionally to the force you apply. Each object needs a different force applied to show the same **extension** x . Therefor each object has a different spring or force **constant** k . This can be calculated by the formula:

$$F = k \cdot x$$

$$\rightarrow k = \frac{F}{x}$$

The **stretching (or squeezing) work** W you do stretching (or squeezing which doesn't really make sense for the laces) is half of the tension you apply times the distance you deform it:

$$W = \frac{1}{2} Fx$$

The equation is not $W=Fx$ because F is not a constant force and therefor you need the proportionality factor $\frac{1}{2}$.

2.2. The extension-tension graph

The extension-tension graph shows if an object obeys Hooke's Law or not.

If it obeys Hooke's Law, the gradient has to be constant and its value is the force constant k .

As soon as the gradient changes the last measurement before it has shown you the elastic limit. From that point on the object is plastically deformed and doesn't obey Hooke's Law anymore.

If the object doesn't obey Hooke's Law from the start at all, the graph is never a straight line.

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