## STRAIN, STIFFNESS AND YOUNG'S MODULUS

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

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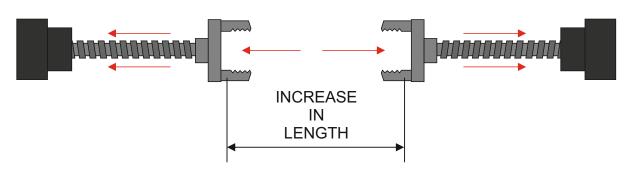
**HELPFUL LINKS:** 

http://www.technologystudent.com/despro 3/strain.html

1. What is meant by 'Strain', in terms of materials testing? 3 marks

**2.** Complete the diagram depicting STRAIN shown below, by adding the shape of the material being tested when force is applied. **2 marks** 

## **FORCE APPLIED**



**3.** The ability to resist bending is a mechanical property called 'stiffness'. In the space below, sketch a typical materials test for this property. Add labels. **4 marks** 

**4.** What is Young's Modulus? **2** marks