

Deformation: Foam Compression

Name:

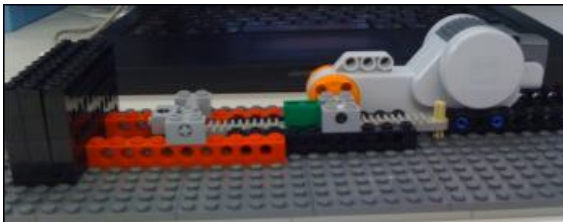
Date:

Pre-Activity: Define stress and strain

Hypothesis:

(What type (hard or soft) of object would require the most compression? Why?)

Materials:



Procedure:

- 1.
- 2.
- 3.

Data:

$$\text{Strain} = (L_{\text{change}}) / L \quad (\text{Eq. 1})$$

Object (Hard or Soft)	Number of Motor Rotation Needed to Compress Object Power	L	L _{change}	Strain	Does the Object go back to original shape?
Playdough					
Bread					
Marshmallow					
styrafoam					

Results/ Conclusion:

Which object had the greatest strain/ deformation?

Which object had the most rotations?