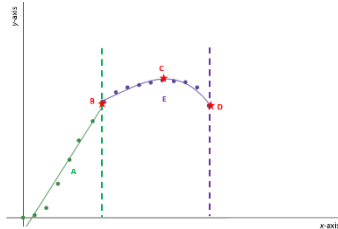


Name: _____ Date: _____ Class: _____

Post-Activity Assessment **Answer Key**

1. Given the figure, what does the x-axis represent?

- stress
 strain



2. Given the same figure, what does the region A (between the origin and point B) represent?

- ductile strength
 load
 Young's Modulus

3. Given the same figure, what does point D represent?

- yield point
 fracture point
 load

4. Given the same figure, what does point B represent?

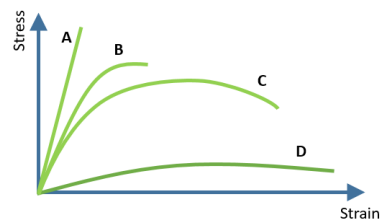
- fracture point
 Young's Modulus
 yield point

5. Given the same figure, if the x-axis represents *strain*, what does the y-axis represent?

- force
 displacement
 stress

6. Given the figure to the right, match the properties to the material:

- D plastic
A brittle
B strong, but not ductile
C ductile



7. Force per unit area that results from a load applied to a material defines:

- stress
 strain

Name: _____ **Date:** _____ **Class:** _____

8. Which is calculated by dividing the change in length of the material by the original length of the material?
- stress
 - strain
9. What are the units for stress?
- N/m^2
 - Nm^2
 - N/m
 - Nm
10. Which of the following factors does NOT affect the stress on a wire?
- diameter of the wire
 - original length of the wire
 - load placed on the wire
 - cross-sectional area of the wire
11. Ceramics are brittle:
- True
 - False
12. What is the best description of a stress-strain curve for ceramics?
- parabola opening up
 - line
 - parabola opening down
13. Ceramics are ductile:
- True
 - False