**Post-Activity Assessment Answer Key**

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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
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/m2🔾 Nm2
🔾 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