

Name: _____

Date: _____

MATERIAL PROPERTIES

There are many different materials in the world, and a lot of them can be used to build structures. However, not every material is appropriate for every job. A beautiful cottage can be made out of logs, but a sports stadium made from logs would not be as successful. High jump crash mats are made from foam and plastic. The high-jumper would not be as willing to compete if it were made from cement and steel.

Materials are chosen for each individual job based on their properties. When choosing a material, one must consider:

- Do I need something that is heavy or light?
- Do I want it to maintain its shape, or be flexible?
- Does it need to last a long time, or will it have a short life?
- How will it fit in its environment?

Explain why the object listed is made out of the material indicated.

Object	Material	Reason
Shoe Sole	Rubber	
Support Beams	Metal	
Mixing Spoon	Plastic	
Baseball Bat	Wood	

What properties need to be considered when making a ...

Diving Board

Cooler

Tire

Backpack
