Material strength can mean many different things depending on the type of force the material is able to withstand.

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| Name of Force | Example Object | Sketch of Force |
| **Tension** | **A shopping bag is under tension when it’s full of heavy items.** |  |
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Task 1: Complete this table

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| --- | --- | --- |
| **Name of Force** | **Example Object** | **Sketch of Force** |
| **Tension** | **A shopping bag is under tension when it’s full of heavy items.** |  |
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| **Name of Mechanical Property** |  | **Description** |
| Strength |  | The ability of a material to be able to be permanently deformed. |
| Hardness |  | The ability of a material to resist impact. |
| Toughness |  | The ability of a material to stretched and then return to it’s original shape. |
| Malleability |  | The ability of a materials to resist a type of force such as tension, compression, torsion, shear or bending. |
| Elasticity |  | The ability of a material to resist being scratched or cut. |

Task 2: Match the name to the description

Task 3:

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| --- | --- | --- | --- |
| **Object** | **Mechanical Properties** | **Description of Forces** | **Sketch of Forces** |
| **Bobby pin** | **Elasticity** | **The corner of the bobby pin returns to it’s original shape once put in the hair to hold the hair in place.** |  |
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