**Bone Crusher Fracture Worksheet**

**Questions**

1. **In general, which bones will require more force to break? Explain why.**
2. **Does the direction in which the force is applied make a difference? Explain.**
3. **Which bones in the body are harder to repair?**

**Data Collection**

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| --- | --- | --- | --- | --- | --- |
| **Bone** | **Bone Mass (g)** | **Bone Volume (ml)** | **Bone Density**  **(g/ml)** | **Predicted Fracture Force**  **(N or lbs)** | **Experimental Fracture Force\***  **(N or lbs)** |
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\* Indicate whether the bone was subjected to tension or compression force.

**Were your predictions of bone strength accurate? Explain.**

**Fracture Examination and Type Determination**

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| --- | --- | --- |
| **Bone** | **Description of How the Bone Fractured** | **Type of Bone Fracture** |
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*Types of bone fractures*: avulsion, comminuted, fissure, greenstick, impacted, oblique, transverse