**Earthquake Engineering and Design Challenge**

**Goals:**

1. Using the engineering design process, build and refine an earthquake-resistant structure.
2. Each structure must meet specific design criteria (see table below).
3. To build the structures your team may use the materials you purchase from the store with the provided budget.

**General Structure Design Criteria:**

1. Structure should be designed and built to **maximize structure height.**
2. Structure should be designed and built to **maximize earthquake resistance.**
3. Structure should be designed and built to **minimize structure cost.**
4. Structure should be designed and built to meet footprint requirements.

**Specific Design Criteria for Structures:**

|  |  |
| --- | --- |
|  | **Requirement** |
| **Footprint** | No larger than provided cardboard base |
| **Height** | At least 20 cm tall |
| **Cost** | No more than $25 million |