**4.1 Calculating Total Force**

**GRADES 3-5**

**Questions:**

**How does a volleyball move? How does a volleyball stop moving?**

**Hypothesis: What do you think will make a ball move and why?**

**Scaffolding Experiment**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Is it moving?**  **(Y or N)** | **How long does it take before it stops moving?** | **What speed is it traveling at?** |
| **Ball on  the ground** |  |  |  |
| **Ball after  a serve** |  |  |  |
| **Holding  the ball** |  |  |  |
| **Dropping  the ball** |  |  |  |
| **Ball after  a bump** |  |  |  |

**Force Diagrams:**

**How does force create motion (Answer using evidence from your experiment)?**