**Activity Data Table** **Tip:** Practice first, then take multiple samples (for science!). Be sure to keep other variables the same.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gear Arrangement** | | **Duration** (in seconds) of top spinning, at Motor Speed: \_\_\_\_\_\_\_\_\_\_\_ | | | |
| Gear on Launcher/Handle | Gear on Spinner/ Top | 1st Try | 2nd Try | 3rd Try | Average |
| http://img.rebrickable.com/img/sets-b/970625-1.jpg  **A**  24-tooth | http://vignette3.wikia.nocookie.net/lego/images/e/ed/970620.jpg/revision/latest?cb=20110801140312  8-tooth |  |  |  |  |
| http://img.rebrickable.com/img/sets-b/970625-1.jpg  **B**  24-tooth | http://img.rebrickable.com/img/sets-b/970625-1.jpg  24-tooth |  |  |  |  |
| http://vignette3.wikia.nocookie.net/lego/images/e/ed/970620.jpg/revision/latest?cb=20110801140312  **C**  8-tooth | http://img.rebrickable.com/img/sets-b/970625-1.jpg  24-tooth |  |  |  |  |
| **Challenge:**  **D** | New arrangement? |  |  |  |  |

**Key Question:** Which gear arrangement is best and why?