

**7th Grade Math**

**Experimental Design**

**Board Game Piece Challenge**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Part #** | **Part Description** | **Part Included in**  **Class Set #** | **Number of parts per teacher** |  | **Cost** | **Size** | **Visibility** | **Stability** |
| **1** | Right Triangular Prism | 2 & 4 | 4 |  | $4.50 |  |  |  |
| **2** | Right Triangular Prism 2 | 1 | 2 |  | $3.50 |  |  |  |
| **3** | Right Triangular Prism Tall | 3 & 5 | 4 |  | $0.80 |  |  |  |
| **4** | Cylinder | 2 & 5 | 4 |  | $9.07 |  |  |  |
| **5** | Cylinder 2 | 1 & 3 | 4 |  | $11.30 |  |  |  |
| **6** | Cylinder Tall | 4 | 2 |  | $1.26 |  |  |  |
| **7** | Parallelogram Prism | 4 & 5 | 4 |  | $8.09 |  |  |  |
| **8** | Parallelogram Prism 2 | 2 & 3 | 4 |  | $8.98 |  |  |  |
| **9** | Parallelogram Prism Tall | 1 | 2 |  | $1.44 |  |  |  |
| **10** | Equilateral Triangular Prism | 1 | 2 |  | $3.90 |  |  |  |
| **11** | Equilateral Triangular Prism 2 | 4 & 5 | 4 |  | $4.33 |  |  |  |
| **12** | Equilateral Triangular Prism Tall | 2 & 3 | 4 |  | $0.69 |  |  |  |

**Total number of parts per teacher: 40**

**One Class Set Per Teacher**

|  |  |  |
| --- | --- | --- |
| **Quantity of**  **Class Set Bags** | **Class Set #**  *(Bag #)* | **Parts Inside of Bag**  *(Use part numbers*  *from above.)* |
| 2 | 1  *Recommended for Advanced Students* | 2, 5, 9, 10 |
| 2 | 2 | 1, 4, 8, 12 |
| 2 | 3 | 3, 5, 8, 12 |
| 2 | 4 | 1, 6, 7, 11 |
| 2 | 5  *Recommended for Remedial Students* | 3, 4, 7, 11 |

**Total of 10 bags – 2 sets of each class set bag – 4 parts inside of each bag**