|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group | **Copper** | **Steel**  **Brass** | **Iron** | **Aluminum** | **Steel** | **Lead**  **In plastic Bag** | **Glass** | **Plastic** | **Wood** | **Rubber** | **Cork** | **Ping Pong Ball** |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| Average |  |  |  |  |  |  |  |  |  |  |  |  |

**MASS** of Object in **grams**

**Class Data Table- Density of 12 Objects**

**Volume** of Object in **cm3**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Group** | **Copper** |  | **Iron** | **Aluminum** | **Steel** | **Lead**  *In plastic Bag* | **Glass** | **Plastic** | **Wood** | **Rubber** | **Cork** | **Ping Pong Ball** |
| 1 | **53.7** | **57.0** | **62.1** | **?** | **51.0** | **?** | **13.6** | **9.0** | **4.3** | **14.6** | **5.2** | **2.4** |
| 2 | **72.1** | **67.4** | **62.0** | **22.0** | **49.2** | **28.7** | **14.0** | **9.1** | **4.5** | **12.3** | **5.5** | **2.6** |
| 3 | **74.0** | **69.5** | **64.1** | **22.0** | **50.8** | **29.1** | **14.0** | **9.0** | **4.6** | **13.5** | **4.1** | **2.3** |
| 4 | **72.2** | **67.7** | **?** | **?** | **49.3** | **29.0** | **14.1** | **9.2** | **4.2** | **12.2** | **4.6** | **2.5** |
| 5 | **72.5** | **67.7** | **11.8** | **?** | **48.8** | **?** | **13.9** | **?** | **4.4** | **13.9** | **5.7** | **2.4** |
| 6 | **72.3** | **67.4** | **62.5** | **22.2** | **49.2** | **29.3** | **14.9** | **9.2** | **4.5** | **13.2** | **5.2** | **2.4** |
| 7 | **72.6** | **67.6** | **61.9** | **22.4** | **49.4** | **28.8** | **14.1** | **9.1** | **4.0** | **13.5** | **5.1** | **2.3** |
| 8 | **72.4** |  | **62.5** | **21.9** | **48.9** | **29.2** | **14.0** | **9.1** | **4.3** | **15.1** | **4.4** | **2.5** |
| Average | **72.2 g** | **67.5 g** | **62.5 g** | **22.1 g** | **49.5 g** | **29.0 g** | **14.1 g** | **9.1 g** | **4.3 g** | **13.3 g** | **5.2 g** | **2.4 g** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Group** | **Copper** | **Brass** | **Iron** | **Aluminum** | **Steel** | **Lead**  *(Teacher only)* | **Glass** | **Plastic** | **Wood** | **Rubber** | **Cork** | **Ping Pong Ball** |
| **1** |  |  | **7.2 cm3** |  |  | **2.5 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **13 cm3** | **18 cm3** | **67 cm3** |
| **2** | **8.45 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **7 cm3** | **10 cm3** | **16 cm3** | **27 cm3** |
| **3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **5 cm3** | **2.5 cm3** | **7 cm3** | **6 cm3** | **5 cm3** | **10 cm3** | **15 cm3** | **27 cm3** |
| **4** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** |  | **2.5 cm3** | **6 cm3** | **5 cm3** | **5 cm3** | **12 cm3** | **13 cm3** |  |
| **5** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6 cm3** | **2.5 cm3** | **7 cm3** | **6 cm3** | **5 cm3** | **12 cm3** |  |  |
| **6** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **5 cm3** | **15 cm3** | **17 cm3** | **25 cm3** |
| **7** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **10 cm3** | **15 cm3** | **27 cm3** |
| **8** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6 cm3** | **2.5 cm3** | **6 cm3** | **7 cm3** | **6 cm3** | **10 cm3** |  |  |
| **Average** | **7.3 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **11 cm3** | **16 cm3** | **27 cm3** |

**Average DENSITY** of Object in **g/cm3**

PPB, Cork, Wood, Rubber, Plastic, Glass, Aluminum, Steel, Iron, Brass, Copper, Lead

Place the 12 objects in order from least dense to most dense.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of Object | **Copper** | **Brass** | **Iron** | **Aluminum** | **Steel** | **Lead**  *(Teacher only)* | **Glass** | **Plastic** | **Wood** | **Rubber** | **Cork** | **Ping Pong Ball** |
| **Average Density of Object** | **10 g/cm3** | **9.4 g/cm3** | **8.7 g/cm3** | **3.0 g/cm3** | **8.3 g/cm3** | **11.6 g/cm3** | **2.3 g/cm3** | **1.5 g/cm3** | **0.7 g/cm3** | **1.2 g/cm3** | **0.3 g/cm3** | **0.09 g/cm3** |