What’s That in There?

At the front of the classroom you will see twelve (12) small plastic bottles wrapped with tape. Your job is to try to determine what is inside each bottle. You will have 3 attempts (**A, B** and **C**). Each attempt will be performed in a slightly different way. Good luck!

|  |  |  |  |
| --- | --- | --- | --- |
| **Bottle** | *What’s in there?* **A** | *What’s in there?* **B** | *What’s in there?* **C** |
| *1* |  |  |  |
| *2* |  |  |  |
| *3* |  |  |  |
| *4* |  |  |  |
| *5* |  |  |  |
| *6* |  |  |  |
| *7* |  |  |  |
| *8* |  |  |  |
| *9* |  |  |  |
| *10* |  |  |  |
| *11* |  |  |  |
| *12* |  |  |  |

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| *2* |  |  |  |
| *3* |  |  |  |
| *4* |  |  |  |
| *5* |  |  |  |
| *6* |  |  |  |
| *7* |  |  |  |
| *8* |  |  |  |
| *9* |  |  |  |
| *10* |  |  |  |
| *11* |  |  |  |
| *12* |  |  |  |

Liquid Soap

Several Horses

­­­­A Few Dried Beans

One Live Scorpion

Salt

One Marble

Pins

Sugar

Weak HCl(aq)

Many Dried Beans

Rubber Stoppers

Nothing But Air

A Single Ball of Cotton

A Few Marbles

A Lock of Kendrick Lamar’s Hair

Coarse Sand/Gravel

A Sense of Foreboding

1. HCl(aq)

2. One marble

3. Liquid Soap

4. Coarse sand/gravel

5. Many Beans

6. Rubber Stoppers

7. Pins

8. A few beans

9. A few marbles

10. Nothing but air

11. One cotton ball

12. Sugar

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A: Students observe bottles from afar. At first this seems impossible. However we can discuss that even with very little information there are still “GOOD” and “BAD” guesses. We can make use of prior knowledge. We already know a lot. For example there is almost no chance that there is an elephant in any of the bottles.

B. Students can handle but not open the bottles.

C. A list of possible items is provided.