Station Lab Worksheet

Station 1

|  |  |  |
| --- | --- | --- |
| Balloon # | Solid, Liquid, Gas | Compressible/Incompressible |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

Station 2

|  |  |
| --- | --- |
| Substance | Soluble or Insoluble |
| Sugar |  |
| NaCl |  |
| Epson salt |  |
| Talc |  |
| Corn starch |  |

Station 3

|  |  |
| --- | --- |
| Liquid | Time (s) |
|  | Trial 1 | Trial 2 | Trial 3 |
| Water |  |  |  |
| Vegetable oil |  |  |  |
| Corn syrup |  |  |  |

Station 4

|  |  |
| --- | --- |
| Name of substance | Description |
| NaCl |  |
| Epson salt |  |
| Talc |  |
| Corn starch |  |
| Sugar |  |

Station 5

|  |  |
| --- | --- |
| Substance | Precipitate (YES or NO) |
| Salt |  |
| Sugar |  |
| Baking soda |  |
| Epson salt |  |

Station 6

For reaction to vinegar and iodine be very descriptive to how you think there was a reaction. If no reaction just do NR.

|  |  |  |
| --- | --- | --- |
| Substance | Vinegar Reaction | Iodine Reaction |
| Baking soda |  |  |
| Salt |  |  |
| Epson salt |  |  |
| Talc |  |  |
| Corn starch |  |  |

Station 7

|  |  |
| --- | --- |
|  | Sink/Float |
| Water |  |
| Add 10 g salt |  |
| Add 20 g salt |  |
| Add 30 g salt |  |

Station 8

Staple finished product here.

Questions:

1. Between the three balloons, which one was the most compressible? What does this mean?
2. If I increased the pressure the three balloons are under, which would show the most change?
3. In which of the station(s) did you observe chemical properties?
4. In which of the station(s) did you observe physical properties?
5. List the 5 signs of a chemical reaction.
6. Of the 4 liquids you tested at station 3, which was the most viscous?
7. Of the 4 liquids you tested at station 3, which was the least viscous?
8. At station 8, what color of pigments made up the black marker?
9. At station 8, was the black marker a homogenous or heterogenous mixture?
10. If the density of water is 1 g/mL, then what did adding the salt do at station 4 to make the block float?