**2017-18 Short Descriptions – MSO Baltimore Tournament**

|  |  |  |
| --- | --- | --- |
|  | Type | Description |
| Roller Coaster | Build | Design, build, and test a roller coaster track to guide a vehicle that travels as close as possible to a target time. |
| Towers | Build | Build a tower to hold the most weight |
| Wright Stuff | Build | Build a monoplane to fly for the longest time |
|  |  |  |
| Experimental Design | Lab | Understand the basics of experiments to design one on the spot |
| Write It Do It | Lab | A student is shown an object, and writes directions (only words) for another teammate to recreate this object. |
| Mystery Architecture | Lab | Design and build a device using only the materials given at the competition. |
| Crime Busters | Lab | Learn forensic chemistry to solve a crime (liquids & powders, chromatography, fingerprints, hair, fiber, pH) |
| Thermodynamics | Lab | Build an insulating device to keep a 250mL beaker of water hot; take a test on thermodynamics |
| Potions and Poisons | Lab | Learn about chemical properties and effects of specified toxic and therapeutic chemical substances, with a focus on household and environmental toxins or poisons |
|  |  |  |
| Solar System | Test | Learn about geologic characteristics and evolution of the Earth's moon and other rocky bodies of the solar system. |
| Road Scholar | Test | Read maps to locate requested locations |
| Anatomy and Physiology | Test | Understand the anatomy and physiology of the respiratory, digestive, and immune systems. |
| Disease Detectives | Test | Identify and diagnose common human disease with a focus on food illnesses |
| Rocks and Minerals | Test | Identify and classify rocks and minerals |
| Ecology | Test | Learn about ecology and adaptations in featured North American biomes. |
| Fast Facts  | Test | Teams will fill in a grid of terms that begin with a given letter to match given science categories. |