

**Dynamic Design:  
Launch and Propulsion**

**Safety Checklist**

**APPENDIX B**

**In the lab or on the construction site:** Signature, group safety officer \_\_\_\_\_

<input type="checkbox"/>	All participants are wearing safety goggles.
<input type="checkbox"/>	All participants know the proper use of equipment and the safety issues involved with using that equipment.

**While building the rocket:** Signature, group safety officer \_\_\_\_\_

<input type="checkbox"/>	Bottles are new or have been used for less than 10 launches.
<input type="checkbox"/>	Only classroom materials are being used in the rocket construction.
<input type="checkbox"/>	No metal or sharp objects are being used on the rocket.
<input type="checkbox"/>	Cuts are being made with safe cutting tools.
<input type="checkbox"/>	Gluing is done with other than a hot glue gun.
<input type="checkbox"/>	Supervisor approval of final rocket. (Signature.....)

**The launch site:** Signature, launch safety officer \_\_\_\_\_

<input type="checkbox"/>	The pad is inspected and appears to be functional.
<input type="checkbox"/>	The pad is firmly anchored.
<input type="checkbox"/>	The size of the launch area is adequate for the experiment undertaken.
<input type="checkbox"/>	Water is not freely running near the launch pad.
<input type="checkbox"/>	All electrical cords are well away from the launch area and the water source.
<input type="checkbox"/>	The launch pin is properly placed over the lip of the bottle.
<input type="checkbox"/>	All personnel in the area are wearing safety goggles before the bottle is pressurized.
<input type="checkbox"/>	When pressurizing, the air line is extended as far from the pad as is possible and established pressures are not being exceeded.
<input type="checkbox"/>	All personnel are paying attention to the launch and have their backs to the sun and are looking at the rocket.

**The launch:** Signature, launch safety officer \_\_\_\_\_

<input type="checkbox"/>	A trained adult is present.
<input type="checkbox"/>	The safety officer, loading officer, launch officer, and downrange officer are present and have been trained in their jobs.
<input type="checkbox"/>	The launch area is clear, both in range and downrange.
<input type="checkbox"/>	All participants participate in the launch countdown led by the launch officer.
<input type="checkbox"/>	The safety officer can abort the launch at any time for any reason.

**Following the launch:** Signature, launch safety officer \_\_\_\_\_

<input type="checkbox"/>	All electricity is turned off.
<input type="checkbox"/>	All water is turned off at the source
<input type="checkbox"/>	Launch area is cleared of all materials and related debris.