

# Firearms, Air/CO2/Pellet/BB/Paint Guns, Object Launching Devices, Archery Equipment, Model Rockets, & R/C Aircraft Project Guidelines

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*Any project which involves the use of firearms, pellet or BB guns, paintball guns, potato guns, archery equipment including recurve, compound, or crossbows, model rockets, or any device capable of projecting or launching a quarter kilogram or less mass of 10 meters or more, or a mass greater than a quarter of a kilogram for any distance, requires a designated supervisor and form 3, along with adherence to the guidelines below. This also includes remote controlled aircraft, but does not include remote controlled land or watercraft.*

**ALL of the information required below MUST appear in both ISEF Form 3 – Risk Assessment Form AND in the procedure in the detailed Research Plan.**

***A designated supervisor and ISEF Form 3 - Risk Assessment Form are required for ALL of the projects in this checklist.***

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## Firearms

- 1) All calibers and bullet size (*grain weight*) must be listed, as well as load type (*factory load or home reload*).
- 2) Type and action of firearm must be listed (*rifle, handgun, shotgun, semiautomatic, pump, bolt, hinge, lever, revolver, automatic, single or double action*).
- 3) Hearing and eye protection must be worn by all participants.
- 4) Need to state that all firearms are in proper working order and the barrel is free of obstructions.
- 5) Location must be in a shooting range unless not allowed by project design restraints.
- 6) If at a range, then the name and address must be listed.
- 7) If on public or private land, (*must first be okayed by the SRC*) location needs to be described (*example: Santa Fe National Forest, 13 miles north of the town of Ponderosa on FS road 10, 1/2 mile east off main road*).
- 8) If at a range, the following is necessary:
- 9) Need to state that, "All range rules and safety precautions will be followed."
- 10) If not at a range, the following is necessary:
  - a. Surroundings must be described; specifically the area downrange needs to be free of roads, houses, occupied areas, domesticated animals, man-made structures, and anything else that might be damaged by stray bullets at a distance of the maximum range of the gun. There must also be a hill, burm, or other earthen backdrop behind the target.
  - b. Target needs to be stated or described and it stated that only those targets will be fired at.
  - c. Need to state that no one will be downrange unless the firearm is holstered or has no round chambered and is on safe.
  - d. Need to state that loaded firearms will always be pointed safely downrange.
- 11) If on private land, then written permission from landowner **must** be attached to Form 3.

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## Air, CO<sub>2</sub>, BB, Paintball Guns

- 1) Type needs to be listed (*spring, pump, CO<sub>2</sub>, or paintball, and rifle or pistol*).
  - 2) All of the requirements for firearms above #'s 3-11 (*including city limits restrictions*) **must** also be followed, with the exceptions that hearing protection is not required and an earthen backdrop is not necessary.
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## Potato guns, and any other object launching device (*including, but not limited to, catapults and trebuchets*)

- 1) **It is a felony for a minor to possess or fire a potato gun.** It **must** be specifically stated that **only an adult** (*named as designated supervisor*) will be involved in the possession, loading, fueling, and operation of the gun.
  - 2) Safety precautions concerning possible human, animal, or property damage **must** be addressed (*including the wearing of eye protection*).
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## Archery Equipment

- 1) Type and draw-weight of bow needs to be listed.
  - 2) Arrowhead type needs to be stated (*field points, target points, blunt tips*).
  - 3) Description of how you will be following the requirements for firearms above, #3 (*excluding hearing protection*), #'s 5-8 (*excluding earthen backdrop and city limits restrictions*), and #'s 10-11 **must** be included.
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## Model Rockets Including Bottle Rockets

- 1) Types and maximum height ratings must be listed.
  - 2) Eye protection must be worn.
  - 3) The requirements for firearms above, #'s 5-6 (*excluding city limits restriction*), #7 (*excluding earthen backdrop*), and #11 **must** be followed and included.
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## Remote Controlled Aircraft (*including radio, wire, gas, or electric, fixed or rotary wing*)

- 1) Type and maximum range of the R/C aircraft must be stated.
- 2) The requirements for firearms above, #'s 5-6 (*excluding city limits restriction*), #7 (*excluding earthen backdrop*), and #11 **must** be followed and included.