

Research Plan (1A)

This completed form is required for ALL projects.

Type or print all information requested.

Answer all questions and complete Research Plan Attachment (see page 40)

- 1) Student's Name _____ Grade _____
- 2) Title of Project _____

- 3) Adult Sponsor _____
- 4) Is this a continuation from a previous year? Yes No
If Yes: a) Attach the previous year's **abstract & completed 1A & research plan** and
b) Explain how this project is new and different from previous years on **Continuation Form (7)**
- 5) **This year's** laboratory experiment/data collection will begin: _____ and end: _____
(must be stated; see start date and end date explanation on pages 7-8) (month/day/year) (month/day/year)
- 6) Where will you conduct your lab work? (check all that apply) Research Institution School Field Home
- 7) Name, address & phone of school and work site(s):
School: _____ Work site: _____ Work site: _____

- 8) **All projects require completed forms: Checklist for Adult Sponsor/Safety Assessment Form (1), Research Plan (1A), Research Plan Attachment and Approval Form (1B) and may require Registered Research Institutional/Industrial Setting Form (1C).**

Check **ALL** items that apply to your research.

The following areas require review and approval by SRC or IRB prior to experimentation :

- Humans** (requires prior IRB approval; complete Forms: Checklist, 1A, 1B, 4A [1C, 2, 3, 4B, if required])
 Non-Human Vertebrate Animals (requires prior SRC approval, complete Forms: Checklist, 1A, 1B, 2, 5 [1C, 3, if required])
 Recombinant DNA (requires prior SRC approval, complete Forms: Checklist, 1A, 1B [2, 3, 1C, as required])
 Pathogens (requires prior SRC approval; complete Forms: Checklist, 1A, 1B, 2 [1C, 3, if required])
 Controlled Substances (requires prior SRC approval; complete Forms: Checklist, 1A, 1B, 2 [1C, 3, if required])
 Human/Animal Tissue (requires prior SRC approval; complete Forms: Checklist, 1A, 1B, 6 [1C, 2, if required])

This area requires approval by a Designated Supervisor prior to experimentation:

- Hazardous Substances or Devices** (complete Forms: Checklist, 1A, 1B, 3 [1C, if required])

- 9) **Complete Research Plan Attachment (See page 40) and attach to this form.**

- 10) **An abstract is required for all projects after experimentation (see page 37).**

Research Plan Attachment

REQUIRED for ALL Projects

A complete research plan must accompany Research Plan Form (1A)

Additional pages may be attached; separate paper may be used

Finalist Name(s): _____

Provide a typed research plan and attach to Research Plan Form (1A).

The research plan is to include the following:

A. Problem or question being addressed

B. Hypothesis/Engineering Goals

C. Description in detail of method or procedures (including chemical concentrations and drug dosages)

For human research, include survey or questionnaires if used, and critically evaluate the risk. See instructions for human research on p. 16 of the Rules. **For nonhuman vertebrate animal research, you must briefly discuss POTENTIAL ALTERNATIVES and present a detailed justification of use of nonhuman vertebrate animals.** See instructions on p. 19 of the International Rules.

D. Bibliography

List at least three major references (*i.e.*, science journal articles, books) from your library research.

If you plan to use non-human vertebrate animals, give an additional animal care reference.

Research Plan (1A) - TEAM

This completed form is required for ALL projects.

Type or print all information requested.

Answer all questions and complete Research Plan Attachment (see page 40)

1) a) Team Leader _____ Grade _____

b) Team Member _____ c) Team Member _____

2) Title of Project _____

3) Adult Sponsor _____

4) Is this a continuation from a previous year? Yes No

If Yes: a) Attach the previous year's **abstract** & completed **1A & research plan** and

b) Explain how this project is new and different from previous years on **Continuation Form (7)**

5) This year's laboratory experiment/data collection will begin: _____ and end: _____
(must be stated; see start date and end date explanation on pages 7-8) (month/day/year) (month/day/year)

6) Where will you conduct your lab work? (check all that apply) Research Institution School Field Home

7) Name, address & phone of school and work site(s):

School:

Work site:

Work site:

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

8) **All projects require completed forms: Checklist for Adult Sponsor/Safety Assessment Form (1), Research Plan (1A), Research Plan Attachment and Approval Form (1B) and may require Registered Research Institutional/Industrial Setting Form (1C).**

Check **ALL** items that apply to your research.

The following areas require review and approval by SRC or IRB prior to experimentation :

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- Non-Human Vertebrate Animals** (requires prior SRC approval, complete Forms: Checklist, 1A, 1B, 2, 5 [1C, 3, if required])
- Recombinant DNA** (requires prior SRC approval, complete Forms: Checklist, 1A, 1B [2, 3, 1C, as required])
- Pathogens** (requires prior SRC approval; complete Forms: Checklist, 1A, 1B, 2 [1C, 3, if required])
- Controlled Substances** (requires prior SRC approval; complete Forms: Checklist, 1A, 1B, 2 [1C, 3, if required])
- Human/Animal Tissue** (requires prior SRC approval; complete Forms: Checklist, 1A, 1B, 6 [1C, 2, if required])

This area requires approval by a Designated Supervisor prior to experimentation:

- Hazardous Substances or Devices** (complete Forms: Checklist, 1A, 1B, 3 [1C, if required])

9) **Complete Research Plan Attachment (See page 40) and attach to this form.**

10) **An abstract is required for all projects after experimentation (see page 37).**