Science Fair Worksheet

Name ___________________________________________ period ______

Question
How does __________________ affect ___________________?
  (independent variable)  (dependent variable)

Rationale (Why is this a question worth answering?)
__________________________________________________________
__________________________________________________________

Hypothesis (a possible answer to the question)
__________________________________________________________

Reason for the hypothesis (based on background research):

Independent variable

Equipment used to measure the independent variable: __________________

SI Units used to measure the independent variable: __________________

How will the variable be changed? __________________

Control (Not exposed to independent variable)

Dependent variables (at least two)

How they will be measured to provide data:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Constants

How they will be kept the same for all groups:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Protocol paperwork must be completed and approvals obtained before the experiment begins.

☐ All projects: Forms 1A, Research Plan, 1B, Form 3
☐ Humans: Forms 1A, Research Plan with Human Participants addendum, 1B, 3, 4, sample of the Informed Consent form. The Internal Review Committee must approve the plan.
☐ Vertebrate Animals (have backbones): Forms 1A, Research Plan with Vertebrate Animals addendum 1B, 3, 5A (home) or 5B and 2 (institution). The Internal Review Committee must approve the plan.
☐ Biological Agents (bacteria, fungi): Forms 1A, Research Plan with Biological Agents addendum 1B, 2 (bacteria only), 3 (fungi only), 6A. A microbiologist must approve bacterial project plans.
☐ Hazardous Chemicals (pesticides, fertilizer): Forms 1A, 1B, 3 with designated supervisor
☐ Dangerous Devices (firearms, machinery): Forms 1A, 1B, 3 with designated supervisor
☐ Tissue Samples (teeth, blood, bone): Forms 1A, 1B, 2, 3, 6A, 6B