

Pearl Creek Science Fair Judging Form

SCIENTIFIC INVENTION OR INNOVATION

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| PROJECT # |
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Student(s): _____ Grade Level(s): _____

Project Title: _____ Teacher(s): _____

Evaluator(s): _____

| CRITERION | Circle one number per criterion – DO NOT TALLY TOTAL POINTS | | | |
|------------------------------|--|--|---|--|
| | 4 PTS - <i>SUPERIOR</i> | 3 PTS - <i>GOOD</i> | 2 PTS - <i>ADEQUATE</i> | 1 PT - <i>POOR</i> |
| MODEL OF INVENTION | <ul style="list-style-type: none"> • Very <u>well constructed & sturdy</u> • <u>Works as described</u> | <ul style="list-style-type: none"> • Well constructed and sturdy • Works mostly as described | <ul style="list-style-type: none"> • Adequately constructed • Somewhat works as described | <ul style="list-style-type: none"> • Poorly Constructed • Does not work |
| LOGBOOK | <ul style="list-style-type: none"> • Very <u>neat and detailed</u> • <u>Explains all limitations</u> • Complete, <u>detailed material list</u> • Detailed <u>reproducible procedure</u> • Multiple drawings | <ul style="list-style-type: none"> • Mostly readable and complete • Mentions most limitations • Lists most materials • Procedure misses a few steps • Includes a few drawings | <ul style="list-style-type: none"> • Hard to read, but adequately clear and complete • Mentions one or two limitations • Lists some materials • Incomplete procedure • Includes a drawing or two | <ul style="list-style-type: none"> • Unreadable, or very hard to understand • Limitations not mentioned • Does not list materials • No procedure • Minimal, unhelpful drawings |
| DISPLAY | <ul style="list-style-type: none"> • <u>Neatly organized</u> • All titles, <u>easy to read</u> • Logical, and <u>easy to understand</u> • Detailed, accurate <u>info on invention and needs it solves</u> | <ul style="list-style-type: none"> • Mostly organized • Many titles, mostly easy to read • Mostly logical, fairly easy to understand • Mostly accurately, partially explains invention and need | <ul style="list-style-type: none"> • Some organization • Some titles, hard to read • Some logic, difficult to understand • Some accurate, incomplete explanation of invention/need | <ul style="list-style-type: none"> • Unorganized • Titles minimal, unreadable • Illogical, difficult to understand • Invention not explained • Need not mentioned |
| STUDENT-DIRECTED WORK | <ul style="list-style-type: none"> • Clearly <u>student's own work</u> • <u>Topic stems from student's</u> curiosity and desire to understand world • <u>Kid-style spelling and grammar</u> • <u>Student's voice</u> and/or quotes • Student <u>answers all "process" questions</u> easily • Nearly all <u>drawings by student</u> | <ul style="list-style-type: none"> • Mostly student's own work • Topic is adult-inspired, but kid enjoys • Mostly kid-style spelling and grammar • Mostly student's voice/quotes • Student can answer most process questions easily • Most drawings by student | <ul style="list-style-type: none"> • Some of student's work OR Not sure how much is students • Adult-driven topic, student is mildly interested • Some kid-style spelling and grammar • Voice lacks student tone/ quote • Student has hard time answering process questions • Drawing from internet, or other sources | <ul style="list-style-type: none"> • Not student's own work • Adult-driven topic, student disinterested • No kid-style spelling and grammar • Adult-voice and no quotes Project may look perfect, un-kidlike • Student is unable to answer process questions • All illustrations from others |

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|-----------------------|---|---|--|--|
| ORAL SKILLS | <ul style="list-style-type: none"> • <u>Composed, prepared</u> • Introduces project and self <u>with enthusiasm</u> • Speaks clearly, <u>easily understood</u> • <u>Makes eye contact</u> | <ul style="list-style-type: none"> • Mostly prepared • Enjoys sharing • Can mostly be understood • Makes fairly good eye contact | <ul style="list-style-type: none"> • Prepared some • Hesitates to share • Hard to hear, can be understood • Looks down a lot | <ul style="list-style-type: none"> • Unprepared • Disinterested • Quiet, mumbles, hard to understand • Avoids eye contact |
| ORAL KNOWLEDGE | <p>Clearly explains in detail:</p> <ol style="list-style-type: none"> a) <u>Construction procedure</u> b) <u>How invention works</u> c) <u>Why invention is needed</u> d) All <u>Limitations</u> e) Possible problems f) How <u>inventor's notebook</u> is set up <ul style="list-style-type: none"> • Volunteers <u>possible improvements</u> • Able to extend beyond project | <p>Can explain fairly well:</p> <ol style="list-style-type: none"> a) Construction procedure b) How invention works c) Adequate explanation of need <p>Not clear on:</p> <ol style="list-style-type: none"> a) Limitations or possible problems b) How inventor's notebook is set up, but can find info with time <ul style="list-style-type: none"> • Needs prompting to discuss possible improvements | <p>Can explain <u>some</u> of:</p> <ol style="list-style-type: none"> a) The construction procedure b) What invention is c) How invention works <p>Not clear on:</p> <ol style="list-style-type: none"> d) Limitations or problems e) Why invention needed f) How to find info in logbook <ul style="list-style-type: none"> • Can't suggest possible improvements, or has unrelated suggestions to the original need | <ul style="list-style-type: none"> • Can't explain how to construct invention • Doesn't know what problem the invention is hoping to solve • Doesn't understand limitations or possible problems • Doesn't understand contents of inventor's notebook • Poor explanations |
| POINT SYSTEM: | 1st = 21-24 Pts | 2nd = 15-20 Pts | 3rd = 6-14 Pts | |

COMMENTS (use back if needed too):

TO BE FILLED OUT BY COORDINATOR ONLY:

/ 24

PLACEMENT (Circle One):

1st

2nd

3rd