**3-4 Science Fair Rubric – Collection, Model or Demonstration**

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| --- | --- | --- | --- | --- |
| **Objectives** | **Outstanding Work** | **Acceptable Work** | **Needs Some Work** | **Needs Lots of Work** |
| **Scientific Knowledge** | **25 24 23 22 21 20** | **19 18 17 16 15 14** | **13 12 11 10 9 8** | **7 6 5 4 3 2 1** |
| **1.** Shows **knowledge of scientific terms and ideas** | Student is very knowledgeable about the topic and can use scientific terms regarding their collection, model or demonstration. | Student can explain their collection, model, or demonstration accurately using scientific terms. | Students can explain most of the elements included in the collection, model, or demonstration. | Student tries to answer questions (posed by judge) but is missing some information. |
| **Understanding/Learning** | **25 24 23 22 21 20** | **19 18 17 16 15 14** | **13 12 11 10 9 8** | **7 6 5 4 3 2 1** |
| **2. Demonstrates understanding** of their project and has learned something about science or scientific procedure. | Student shows knowledge of the scientific topic beyond the scope of the demonstration, model, or collection and it is evident that the project involved a significant amount of work. | Student understands the science behind their demonstration, model, or collection and it is evident they put work into the project. | Student understands their project but not the science behind it. | Student doesn’t completely understand their own project. |
| **Spoken Presentation** | **25 24 23 22 21 20** | **19 18 17 16 15 14** | **13 12 11 10 9 8** | **7 6 5 4 3 2 1** |
| **3.** **Speaks knowledgeably** about their project. | Student able to share many details about the project through scientific vocabulary. Has good eye contact and speaking volume. | Student shows a good understanding of the project. Speaks willingly about the project using note cards. | Student knows about the project and offers minimal explanation. Gives a brief summary when asked. | Student can answer some questions when asked. |
| **Board** | **25 24 23 22 21 20** | **19 18 17 16 15 14** | **13 12 11 10 9 8** | **7 6 5 4 3 2 1** |
| **4.** Board **is well organized and visually appealin**g. | Board shows data in an organized, neat manner, complete with labeled charts, tables and pictures. Proper spelling, grammar, punctuation. **Includes a detailed abstract.** | Board is neat and attractive and has charts, tables and pictures. Proper spelling, grammar, and punctuation and **includes a concise abstract.** | Board lists some science terms and some data. Proper spelling, grammar, and punctuation with a couple of errors. **Student attempts to write an abstract.** | Board has limited data. Several spelling, grammar, and punctuation errors. **Abstract is missing.** |

Project Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade \_\_\_\_\_\_

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Physical or Biological

School \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Collection, Model or Demonstration

|  |  |  |
| --- | --- | --- |
| **Objectives** | **Score** | **Comments** |
| **Scientific Knowledge** | **/25** |  |
| **1.** Shows **knowledge of scientific terms and ideas** |  |  |
| **Understanding/Learning** | **/25** |  |
| **2. Demonstrates understanding** of their project and has learned something about science or scientific procedure. |  |  |
| **Spoken Presentation** | **/25** |  |
| **3.** **Speaks knowledgeably** about their project. |  |  |
| **Board** | **/25** |  |
| **4.** Boardthat **is well organized and visually appealin**g |  |  |
| **TOTAL SCORE** | **/100** |  |

Judge’s name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sample Questions Judges May Ask

**Scientific Knowledge**

What new words did you learn as part of your study of this topic?

Have you thought of an experiment that you could do about your topic?

What would you do?

**Understanding/Learning**

How many different sources did you search to find your information?

What sources did you use for your research? Did they all agree on the information?

How did you choose the information you chose to display?

What did you learn from this project?

What part of science does your project study?

What changes would you make to your project if you were to do it again?

**Spoken Presentation**

Can you explain . . . .?

What was the most difficult part of your project?

Where did you get your topic?

**Boards**

Who helped you with your boards? What did they do?

Can you explain your graph to me?