22ND ANNUAL SCIENCE FAIR

Thursday, March 2, 2017
Lancaster Event Center
5:00-8:00 p.m.

Open to all 5th-8th grade students
Registration Deadline: February 10, 2017
Register online at www.lps.org, jump code PTBV by February 10, 2017

Judge Guidebook
Welcome to the 22nd Annual Zoetis*LPS*GSK Science Fair 2017!

Thursday, March 2, 2017
Lancaster Event Center • 4100 North 84th Street • Pavilion 1
Lincoln, Nebraska
5:00-8:00 p.m.

JUDGE GUIDEBOOK

Table of Contents
General Information ................................................................. 3
Commonly Asked Questions .................................................. 3
The Judging Process ............................................................... 4
Experiment Judging Form ...................................................... 5-6
Demonstration Judging Form .................................................. 7-8
INFORMATION FOR CLASSROOM TEACHERS

Date of Fair: Thursday, March 2, 2017
Location: Lancaster Event Center
4100 North 84th Street
Pavillion 1
Lincoln, Nebraska

Important Times:
Judge Registration 4:00-5:00 p.m.
Training Session (Nebraska Room) 4:30 p.m.
Judging Time 5:00-8:00 p.m.

COMMONLY ASKED QUESTIONS

1. Who will participate in the fair?
   This year we expect over 500 LPS students to participate. Students will be divided into an Elementary Division (grade 5) and a Middle Level Division (grades 6-7-8). Students will work individually or with a partner on a self-chosen topic of interest (experiment or demonstration).

2. How important are my judging comments?
   The science fair is a learning opportunity for the students. Your comments are invaluable. You are encouraged to give both verbal and written comments. The students will appreciate your POSITIVE comments.

3. How much time should I spend with each project?
   The average time is around 10 minutes per project. Spend enough time to allow the student to share their information, to ask questions, share your observations, and then complete the judging form.

4. Is there a minimum number of points I should award a student?
   Although there is no minimum number of points, please keep in mind that this is a learning opportunity and very low scores can have a negative impact upon the student. We want students to leave the fair with a positive feeling about their project, a desire to continue participating in the future, and an attitude to maintain an interest in science. (If you feel the project is of poor quality, we’d recommend that you use 60 points as a low score. These students will receive a white ribbon.)

5. If I have questions, whom do I contact?
   Prior to the fair . . . Rochelle Settles
   School: 402-436-1140
   James Blake
   LPSDO: 402-436-1802
   Day of the fair . . . Fredstrom Office
   402-436-1140

6. Are there training sessions for judges available?
   A training session will be held at the Lancaster Event Center, on fair day, at 4:30 p.m., in the Nebraska Room.
JUDGING PROCESS (DAY OF FAIR)

1. You will receive a judging folder when you check-in at the judge registration table. Please review your forms and locate the assigned displays on the floor map.

2. We encourage you to walk around the display floor and view a variety of projects. Try to get a ‘feel’ for the overall quality of the projects and then evaluate your assigned projects. **Do not begin judging before the completion of the opening ceremony.**

3. Please note that the judging forms are printed on two different colors. One color indicates a ‘Demonstration’ and the other an ‘Experiment’. The display numbers have already been placed upon the judging forms. **Please make certain you match the display number on the student display with the correct judging form.** NOTE: If you believe that a mistake has been made in categorizing the project as a demonstration or experiment, additional judging forms are available at the judge registration table. You would then need to write in the correct display number on the new form.

4. On **both** forms (Experiment & Demonstration):
   - Write in the student name(s).
   - Write in the topic of the project.
   - Complete **both sides** of the form.
   - Total the score.

5. How to score the forms?
   - Note that each subsection has a total point value indicated to the right of the subsection heading.
   - Each subsection has a range of possible points. Read the descriptors and determine the number of points earned. Use your own best judgment when determining the number of points to be awarded. **Choose the descriptor that best illustrates the project and/or the students’ understanding and then choose a point total to be awarded.**
   - Knowledge demonstrated by students and the thoroughness of their display represent 70 percent of their score. The technical portion of the display represents 30 percent of their score.
   - Based upon past experience, we would expect a majority of the projects to earn a ‘Blue’ (80-89 points) ribbon. To earn a ‘Purple’ ribbon, a student should exhibit an excellent understanding of their topic and a quality display. We suggest the minimum score be 60.
   - Add additional comments to the judging form. They are invaluable to the student to know what they did well and what needs to be improved.
   - Sample judging forms for experiments and demonstrations are found on the following pages. Please review these carefully.
EXPERIMENT JUDGING FORM
Zoetis-LPS-GSK Science Fair
Lincoln Public Schools

Project #: ____________
Final Score: __89__

Student Name(s): Albert E.    Topic: Popcorn

SCIENTIFIC THOUGHT (Verbal Presentation)

a. Knowledge of Scientific Fact or Theories
23-25 Knowledgeable, shares information freely, good understanding of topic, able to answer questions.
20-22 Provides explanation of some facts and shows general understanding of topic.
17-19 Provides some facts with prompting.
15-16 Minimal information shared on topic.

b. Planned and Organized
14-15 Understands and utilizes the Scientific Method to complete project.
11-13 Demonstrates some knowledge of the Scientific Method.
8-10 Exhibits limited understanding of the Scientific Method with prompting.

Comments:
*Clear that student understands topic. Be more direct in your presentation. Don't wait for questions to be asked.

Expects Graphs, Charts, and Display
9-10 Is able to explain graphs, charts, or other visual aids as they pertain to the project.
7-8 Is able to explain graphs, charts, or other visual aids with prompting.
6 Gives limited explanations to graphs, charts, or other visual aids.

Comments:
Your visual aids enhance the explanations and understanding of your project. Nicely done!

THOROUGHNESS OF DISPLAY (Visual Presentation)

a. Scientific Method and Sources of Information
18-20 Display accurately reflects the use of the Scientific Method (hypothesis, procedure, results, conclusion) and includes sources of information.
16-17 Display reflects some evidence of the Scientific Method and includes sources of information.
14-15 Display reflects limited evidence of the Scientific Method and includes sources of information.

Comments:
Quality sources of information, could have used more. Some holes in the procedure and results of S. Method.

Points Earned-Page 1: __61__/70
THOROUGHNESS OF DISPLAY (continued)

b. Accurate and Complete Visual Aids

9-10 Display includes two or more of following: graph, chart, photograph, illustration, or model that accurately reflects project.

7-8 Display includes one of the following: graph, chart, photograph, illustration, or model that accurately reflects project.

0 Display does not include a visual aid.

Comments

Graphs and photos really enhance your presentation!

TECHNICAL SKILL (Visual Presentation)

a. Exhibit ‘Catches the Eye’ and Focuses Attention of Visitor

5 Display ‘grabs’ your attention and interest.

4 Display is neat and organized but not ‘eye-catching’.

3 Display is organized but lacks neatness.

2 Display is unorganized and appears put together quickly.

Comments

Very colorful and ‘eye-catching’ display!

b. Words are Spelled Correctly.

5 All words are spelled correctly.

4 1 or 2 words are misspelled.

3 3 or 4 words are misspelled.

2 5 or more words are misspelled.

Comments

experiment
not experement

b. Labels are Neat and Easy to read.

5 Labels are attractive, neat, and easy to read.

4 Labels are fairly easy to read.

3 Labels are difficult to read.

2 Few or no labels present.

Comments

Well done!
Easy to read!!

ORIGINALITY

a. Original and Unique Ideas for Topic and Display

5 Unique and original topic and display.

3-4 Original topic and/or unique display.

1-2 Some originality in topic and display.

Comments

Great display of a common project

RIBBON EARNED - EXPERIMENT

<table>
<thead>
<tr>
<th>RIBBON</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PURPLE</td>
<td>90-100 Points</td>
</tr>
<tr>
<td>BLUE</td>
<td>80-89 Points</td>
</tr>
<tr>
<td>RED</td>
<td>70-79 Points</td>
</tr>
<tr>
<td>WHITE</td>
<td>69 or Below</td>
</tr>
</tbody>
</table>

Points Earned-Page 2: 28/30

Points Earned-Page 1: 61/70

Total Points: 89/100
DEMONSTRATION JUDGING FORM
Zoetis-LPS-GSK Science Fair
Lincoln Public Schools

Student Name(s): Alberta E.                       Final Score: 93

Topic: Does a cow really have 4 stomachs?

KNOWLEDGE (Verbal Presentation)

a. Knowledge of Facts or Theories

<table>
<thead>
<tr>
<th>Points</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-25</td>
<td>Knowledgeable, shares information freely, good understanding of topic, able to answer questions.</td>
</tr>
<tr>
<td>20-21</td>
<td>Provides explanation of some facts and shows general understanding of topic.</td>
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<td>Provides some facts with prompting.</td>
</tr>
<tr>
<td>15-16</td>
<td>Minimal information shared on topic.</td>
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</table>

b. Planned and Organized

<table>
<thead>
<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-15</td>
<td>Shares information in an organized and sequential manner.</td>
</tr>
<tr>
<td>11-12</td>
<td>Shares information in a fairly organized and sequential manner.</td>
</tr>
<tr>
<td>9-10</td>
<td>Shares information with a prompting from the judge.</td>
</tr>
<tr>
<td>6-8</td>
<td>Shares information in an unorganized manner.</td>
</tr>
</tbody>
</table>

Comments

Great presentation of your project.

I can tell you planned your project carefully.

Your visual aids help to understand your topic.

THOROUGHNESS OF DISPLAY (Visual Presentation)

a. Complete and Concise Text with Sources Identified

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>18-20</td>
<td>Display includes both visual and written information including at least three or more sources of information.</td>
</tr>
<tr>
<td>16-17</td>
<td>Display includes both visual and written information including two sources of information.</td>
</tr>
<tr>
<td>14-15</td>
<td>Display includes both visual and written information including one source of information.</td>
</tr>
<tr>
<td>10-13</td>
<td>Display includes both visual and written information without a source of information.</td>
</tr>
</tbody>
</table>

Comments

Make certain you use 3 or more valid sources of information.
THOROUGHNESS OF DISPLAY (continued)

b. Accurate and Complete Visual Aids

9-10 Display includes two or more of following: graph, chart, photograph, illustration, or model that accurately reflect project.
7-8 Display includes one of the following: graph, chart, photograph, illustration, or model that accurately reflect project.
0 Display does not include a visual aid.

Comments

I loved your photos!

10/10

TECHNICAL SKILL (Visual Presentation)

a. Exhibit ‘Catches the Eye’ and Focuses Attention of Visitor

5 Display ‘grabs’ your attention and interest.
4 Display is neat and organized but not ‘eye-catching’.
3 Display is organized but lacks neatness.
2 Display is unorganized and appears put together quickly.

Comments

The colors on your display were wonderful!

5/5

b. Words are Spelled Correctly.

5 All words are spelled correctly.
4 1 or 2 words are misspelled.
3 3 or 4 words are misspelled.
2 5 or more words are misspelled.

Comments

Always double check your spelling.

4/5

c. Labels are Neat and Easy to read.

5 Labels are attractive, neat, and easy to read.
4 Labels are fairly easy to read.
3 Labels are difficult to read.
2 Few or no labels present.

Comments

Very nice labels.

5/5

ORIGINALITY

a. Original and Unique Ideas for Topic and Display

5 Unique and original topic and display.
3-4 Original topic and/or unique display.
1-2 Some originality in topic and display.

Comments

Great topic and well-developed display!

5/5

RIBBONearned - DEMONSTRATION

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Total Points: 93/100