



## ENTERING ELECTRONICS SCORE SHEET

Complete **three** (3) required and **four** (4) “Brain Booster” activities in the Entering Electronics Achievement Program each year. Complete the program in three years. If you do additional activities, please **check** (✓) the **seven** (7) activities you want to be graded. Record in your Entering Electronics notebook the what, when, where, and how you accomplished each selected “Brain Boosters” activity. Include your notebook with your project book for grading.

**(Maximum: 42 points only.)**

|   | Possible<br>Points | Score<br>First Year | Score<br>Second Year | Score<br>Third Year |
|---|--------------------|---------------------|----------------------|---------------------|
| <b>Activity 1: What is This and That?</b>                               |                    |                     |                      |                     |
| <input type="checkbox"/> Identifying electronic parts (pages 6-7)       | <u>6</u>           | _____               | _____                | _____               |
| <input type="checkbox"/> Brain booster activity (page 7)                | <u>6</u>           | _____               | _____                | _____               |
| <b>Activity 2: Hunting for Electronic Wizards</b>                       |                    |                     |                      |                     |
| <input type="checkbox"/> Identifying electronic devices (pages 8-9)     | <u>6</u>           | _____               | _____                | _____               |
| <input type="checkbox"/> Brain booster activity (page 9)                | <u>6</u>           | _____               | _____                | _____               |
| <b>Activity 3: How Many and How Much?</b>                               |                    |                     |                      |                     |
| <input type="checkbox"/> Acquiring electronic parts (pages 10-11)       | <u>6</u>           | _____               | _____                | _____               |
| <input type="checkbox"/> Brain booster activity (page 11)               | <u>6</u>           | _____               | _____                | _____               |
| <b>Activity 4: Hot Wire Hook-ups</b>                                    |                    |                     |                      |                     |
| <input type="checkbox"/> Soldering and preparing parts (pages 12-13)    | <u>6</u>           | _____               | _____                | _____               |
| <input type="checkbox"/> Brain booster activity (page 12)               | <u>6</u>           | _____               | _____                | _____               |
| <b>Activity 5: The Capacity to Resist</b>                               |                    |                     |                      |                     |
| <input type="checkbox"/> Learning how to read codes (pages 14-17)       | <u>6</u>           | _____               | _____                | _____               |
| <input type="checkbox"/> Brain booster activity (page 17)               | <u>6</u>           | _____               | _____                | _____               |
| <b>Activity 6: Diodes—One Way Only!</b>                                 |                    |                     |                      |                     |
| <input type="checkbox"/> Connecting diodes in circuits (pages 18-20)    | <u>6</u>           | _____               | _____                | _____               |
| <input type="checkbox"/> Brain booster activity (page 20)               | <u>6</u>           | _____               | _____                | _____               |
| <b>Activity 7: Dim Your Bright Lights!</b>                              |                    |                     |                      |                     |
| <input type="checkbox"/> Assembling a circuit (pages 21-23)             | <u>6</u>           | _____               | _____                | _____               |
| <input type="checkbox"/> Brain booster activity (page 23)               | <u>6</u>           | _____               | _____                | _____               |
| <b>Activity 8: Does Your LED Glow?</b>                                  |                    |                     |                      |                     |
| <input type="checkbox"/> Testing for voltage and polarity (pages 24-25) | <u>6</u>           | _____               | _____                | _____               |
| <input type="checkbox"/> Brain booster activity (page 25)               | <u>6</u>           | _____               | _____                | _____               |

(Continue to next page)

Activity 9: How Fast Do I Blink?

|  |          |       |       |       |
|--|----------|-------|-------|-------|
| ___ Assembling a LED circuit (pages 26-27) | <u>6</u> | _____ | _____ | _____ |
| ___ Brain booster activity (page 27)       | <u>6</u> | _____ | _____ | _____ |

Activity 10: Gotcha!

|  |          |       |       |       |
|--|----------|-------|-------|-------|
| ___ Understanding how photocells react (pages 28-29) | <u>6</u> | _____ | _____ | _____ |
| ___ Brain booster activity (page 29)                 | <u>6</u> | _____ | _____ | _____ |

Activity 11: My! How Bright is the Light?

|   |          |       |       |       |
|---|----------|-------|-------|-------|
| ___ Demonstrating how a semiconductor can generate a current flow (pages 30-31) | <u>6</u> | _____ | _____ | _____ |
| ___ Brain booster activity (page 31)  | <u>6</u> | _____ | _____ | _____ |

Activity 12: Surprise! Surprise!

|  |          |       |       |       |
|--|----------|-------|-------|-------|
| ___ Making an intruder alarm (pages 32-33) | <u>6</u> | _____ | _____ | _____ |
| ___ Brain booster activity (page 33)       | <u>6</u> | _____ | _____ | _____ |

Activity 13: More Volume, Please!

|   |          |       |       |       |
|---|----------|-------|-------|-------|
| ___ Building a 6—8 Watt amplifier (pages 34-36) | <u>6</u> | _____ | _____ | _____ |
| ___ Brain booster activity (page 36)            | <u>6</u> | _____ | _____ | _____ |

My Own “Brain Boosters” Activities

|           |          |       |       |       |
|-----------|----------|-------|-------|-------|
| ___ _____ | <u>6</u> | _____ | _____ | _____ |
| ___ _____ | <u>6</u> | _____ | _____ | _____ |
| ___ _____ | <u>6</u> | _____ | _____ | _____ |
| ___ _____ | <u>6</u> | _____ | _____ | _____ |

Entering Electronics

|                              |          |       |       |       |
|------------------------------|----------|-------|-------|-------|
| Planning Guide (page 4)      | <u>6</u> | _____ | _____ | _____ |
| Achievement Program (page 5) | <u>2</u> | _____ | _____ | _____ |

|  |           |       |       |       |
|--|-----------|-------|-------|-------|
| Exhibit: <b>(Maximum 30 points only)</b> | <u>30</u> | _____ | _____ | _____ |
|--|-----------|-------|-------|-------|

A poster or display on two electric activities completed this year in the Entering Electronics project plus your “Brain Boosters” activities notebook and project book.

|                 |           |       |       |       |
|-----------------|-----------|-------|-------|-------|
| Activity Record | <u>20</u> | _____ | _____ | _____ |
|-----------------|-----------|-------|-------|-------|

|             |            |       |       |       |
|-------------|------------|-------|-------|-------|
| Total Score | <u>100</u> | _____ | _____ | _____ |
|-------------|------------|-------|-------|-------|

Judges Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

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