



**Gordon A. Cain Center**  
*For Scientific, Technological, Engineering & Mathematical Literacy*

## **Unit 5 Programming Basics**

| Team Name | Eng Ntbk check (10 pts) | Eng Ntbk check (10 pts) | Eng Ntbk check (10 pts) | Robot Design (20 pts) | Activity 1-5 (50 pts)** | Total | Comments |
|-----------|-------------------------|-------------------------|-------------------------|-----------------------|-------------------------|-------|----------|
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**Eng Notebook check (3x10 pts):**

| <b>Description</b>                           | <b>Excellent<br/>2 pts</b>                                                                                                                                                                                                        | <b>Good<br/>1 pt</b>                                                                                                                                                                                                                    | <b>Poor<br/>0 pt</b>                                                                                                                                                                                                                 |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Access</b>                                | - Notebook is available for check and is in excellent condition                                                                                                                                                                   | - Notebook is available for check but in poor condition                                                                                                                                                                                 | - Notebook is unavailable (0 for whole assignment)                                                                                                                                                                                   |
| <b>Organization</b>                          | - Notebook is clear and concise with necessary information<br>- Reader is able to navigate through portfolio with full understanding of work                                                                                      | - Notebook is somewhat clear and concise with necessary information<br>- Reader is able to navigate through portfolio with somewhat of an understanding of work                                                                         | - Notebook is not clear and concise and lacks necessary information<br>- Reader is not able to navigate through portfolio                                                                                                            |
| <b>Overall Neatness, Signatures, Grammar</b> | - Notebook is dated and signed<br>- Entries are done in pen<br>- There are few grammar mistakes<br>- Handwriting is legible and math is easy to follow                                                                            | - Notebook is sometimes dated and signed<br>- Entries are sometimes done in pen<br>- There are some grammar mistakes<br>- Handwriting is sometimes legible and math is somewhat easy to follow                                          | - Notebook is rarely dated and signed<br>- Entries are rarely done in pen<br>- There are many grammar mistakes<br>- Handwriting is not legible and math is not easy to follow                                                        |
| <b>Content</b>                               | - Details of information gathered and work accomplished for each day are entered for all work days since last check.<br>- Discussion questions have been answers<br>- Frequent reflections on work and future needs are included. | - Some details of information gathered and work accomplished for each day are entered for all work days since last check.<br>- Some discussion questions have been answers<br>- Some reflections on work and future needs are included. | - Few details of information gathered and work accomplished for each day are entered for all work days since last check.<br>- Few discussion questions have been answers<br>- Few reflections on work and future needs are included. |
| <b>Drawings and Sketches</b>                 | - Imagery, sketches, and drawings are labeled, formatted, and fully relate to the overall design of the robot                                                                                                                     | - Some imagery, sketches, and drawings are labeled, formatted, and fully relate to the overall design of the robot                                                                                                                      | - Few imagery, sketches, and drawings are labeled, formatted, and fully relate to the overall design of the robot                                                                                                                    |

**Robot Design (20 pts):**

- \_\_\_ Battery connector is used (2 pts)
- \_\_\_ Build is generally sturdy (wheels and gears are not wonky, parts are not falling off) (10 pts)
- \_\_\_ Motors/Sensors are plugged into the correct ports (Motors in Port 2 and 3) (5 pts)
- \_\_\_ Build successfully accomplishes task (3 pts)



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**Worksheet Activity 1-5 (10 pts each)**

**Lesson 5.1 - Activities 1, 2, and 3**

**Lesson 5.2 - Activities 4 and 5**

- \_\_\_ Worksheet questions are answered completely and correctly (4 pts)
- \_\_\_ Program compiles and performs basic movement per assignment (3 points)
- \_\_\_ Comments in the program describing the code (1 point)
- \_\_\_ White space and formatting is used appropriately (1 point)
- \_\_\_ Team member names are identified in the code or on worksheet submission (1 point)