**Data Types and Displays and**

**Basic 75 pts. 75% = C**

**Challenge 1 15 pts. 80 %= B-**

**Challenge 2 10 pts. 100% = A**

**Challenge 3 ? pts 101-108**

**Troubleshooting with Data Display:100 Pts.**

**Team Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Team Members’ Names\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **BASIC**

**VIEW** video in Connect 1: “Autonomous Loading ”

**USE** construct 2 to construct your robot according to the directions in VT.

**VIEW** Construct 3, “Lesson Overview,” *Data Types and Displays*, and answer

questions 3-1 and 3-2

**Date**

3.1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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3.2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**VIEW** Construct 4, “Displaying Sensor Data,” *Displaying Ultrasonic Sensor Data Part 1,* and answer question 4.1and 4.2.

4.1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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4.2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**View** Construct 5, “Displaying Data Sensor 2,” *Displaying Ultrasonic Sensor Data Part 2, and answer questions 5.1 – 5.5.*

5.1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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5.2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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5.3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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5.4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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5.5\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**DEMONSTRATE** “Demonstrate Display Ultra 2,” and show completed program, first to a fellow classmate and then to a teacher.

**READ**, **REVIEW AND** **STUDY** Contemplate 6, “Ultrasonic Display Program”

**READ**, **REVIEW AND** **STUDY** Contemplate 7, “Real-Time Distance Program”

**COMPLETE** the “Real-Time Distance Challenge.”

**DEMONSTRATE** “Real-Time Distance Challenge,” and show completed program, first to a fellow classmate and then to a teacher.

**READ**, **REVIEW AND** **STUDY** Contemplate 8 “Multiple Display Challenge”

**COMPLETE** the “Multiple Display Challenge.”

**DEMONSTRATE** “Multiple Display Challenge,” and show completed program, first to a fellow classmate and then to a teacher

**READ**, **REVIEW AND** **STUDY** Contemplate 9, “Sound with Motors Challenge”

**COMPLETE** the “Sound with Motors Challenge.”

**DEMONSTRATE** “Sound with Motors Challenge,” and show completed program, first to a fellow classmate and then to a teacher

**READ** Continue 8, “School Zone Challenge.” (Your “road” will be half of one of the large tables, with your “school zone 18”)

**COMPLETE** the “School Zone Challenge.” and show completed program, first to a fellow classmate and then to a teacher

**Move to THE NEXT LESSON: *TROUBLESHOOTING WITH DATA DISPLAY***

**READ**, **REVIEW AND** **STUDY:** Troubleshooting, *“Displaying Sensor Values”*

**DISPLAY** a program that you could use to troubleshoot by displaying sensor values , first to a fellow classmate and then to a teacher.

\_\_\_\_\_\_\_\_\_\_\_**75 Points**

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