

Unit 9: Graphical Interface	Estimate Unit Length: 1-2 weeks
Course Code/Course Title: Robotics 1	Date Created: 7/16/2018

<p>Students will understand</p> <ul style="list-style-type: none"> Graphical user interfaces and their use with programming of the robot. Describe data types, variables, and logic as it relates to programming. Communicate with clarity and precision. Build a design and programming journal for each project. 	<p>Essential Questions: How does science and Biology relate to me?</p> <ul style="list-style-type: none"> What is Graphical Interface? How is Graphical Interface used? Where is the utilization of graphical user interface most appropriate when compared to other programming languages?
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Sub-Unit Components/Sub-Headings/Objectives

Programming Language	Data Types	Data Variables			
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Knowledge—Students will know...

<p>List and describe the different programming languages. Describe data types, variables, and logic as it relates to programming. Communicate with clarity and precision. Build a design and programming journal for each project.</p>

Standards

Assessments/Evidence

<p>(HS-ETS1-1) Analyze complex real-world problems by specifying criteria and constraints for successful solutions. (HS-ETS1-4) Use mathematical models and/or computer simulations to predict the effects of a design solution on systems and/or the interactions between systems.</p>	<p>Closed –Ended Selected Response (Optional)</p> <ul style="list-style-type: none"> Multiple Choice True/False Matching <p>Open-Ended Constructed Response (Required)</p> <ul style="list-style-type: none"> Short Answer Visual Representation (Web, Concept Map, Flow Chart, Graph / Table, Picture) <p>Products (Optional)</p> <ul style="list-style-type: none"> Log/Journal <p>Student Self-Assessment (Required)</p> <ul style="list-style-type: none"> Teacher-Made Prompts for Reflection Bell-Ringers Discussion (Whole-Class or Small Group) Self Evaluation <p>Peer Evaluation (Required)</p>
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Reading and Writing Standards (except for English/Language Arts courses)

RST.11-12.7 - Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem. (HS-ETS1-1), (HS-ETS1-3)
RST.11-12.8 - Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information. (HS-ETS1-1), (HS-ETS1-3)
RST.11-12.9 - Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible. (HS-ETS1-1), (HS-ETS1-3)

Instructional Resources/Materials

- Graphical User Interface (GUI)
- Computer