Unit 8: Intelligent Applications	Estimate Unit Length: 1-2 weeks
Course Code/Course Title: Robotics 1	Date Created: 7/16/2018

 Students will understand Draw the design of the robot, including wire diagram. Communicate with clarity and precision. Build a design and programming journal for each project. 	 Essential Questions: How does science and Biology relate to me? How are "Intelligent Applications" applicable to design and functionality? How does Intelligent Applications affect the design and functionality of a robot?

Sub-Unit Components/Sub-Headings/Objectives

Robot Design	Wire Diagrams	Design Journal	Programming Journal	

Knowledge—Students will know...

How to draw and design a robot including the wire diagrams required for robotic function. Communicate with clarity and precision related to robotics design. Build and design a programming journal for each project

Standards	Assessments/Evidence
(HS-ETS1-1) Analyze complex real-world problems by specifying	Closed –Ended Selected Response (Optional)
criteria and constraints for successful solutions.	Multiple Choice
(HS-ETS1-3) Evaluate a solution to a complex real-world problem,	• True/False
based on scientific knowledge, student-generated sources of evidence,	Matching
prioritized criteria, and tradeoff considerations.	Open-Ended Constructed Response (Required)
	Short Answer
	• Visual Representation (Web, Concept Map, Flow Chart, Graph /
	Table, Picture)
	Products (Required)
	Log/Journal
	Student Self-Assessment (Required)
	Teacher-Made Prompts for Reflection
	Bell-Ringers
	Discussion (Whole-Class or Small Group)
	Self Evaluation
	Peer Evaluation (Required)

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,

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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

• Computer

• Software

Navigational System