

0200023 - M/J Grade 8 Digital Discoveries

Standards Alignment (IM7)

Standard: [SC.8.CC.1.1](#) (Covered in The Materials: Yes)

Notes: -Digital Tools for Collaboration -Word Processing -Spreadsheets -Slideshows

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6258>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6320>

Standard: [SC.8.CO.1.1](#) (Covered in The Materials: Yes)

Notes: -Slideshows -Visualizing Data

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6260>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4502>

Standard: [SC.8.CO.1.2](#) (Covered in The Materials: Yes)

Notes: -Team Project and Software Development Life Cycle -Nested Loops with Python Turtles / Team Project

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6257>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4494>

Standard: [SC.8.CS.2.1](#) (Covered in The Materials: Yes)

Notes: -Smart Machines

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5986>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4510>

Standard: [SC.8.CS.2.2](#) (Covered in The Materials: Yes)

Notes: -Types of Threat -Concatenation with Python Turtles / Digital Security Measures

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6242>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4476>

Standard: [SC.8.CS.2.3](#) (Covered in The Materials: Yes)

Notes: -Life in a Digital World

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6078>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4507>

Standard: [SC.8.ET.1.1](#) (Covered in The Materials: Yes)

Notes: -Smart Machines

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5986>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4510>

Standard: [SC.8.ET.1.2](#) (Covered in The Materials: Yes)

Notes: -Smart Machines

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5986>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4510>

Standard: [SC.8.ET.1.3](#) (Covered in The Materials: Yes)

Notes: -Inside the Machines

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5987>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4509>

Standard: [SC.8.ET.1.4](#) (Covered in The Materials: Yes)

Notes: -Life in a Digital World

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6078>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4507>

Standard: [SC.8.ET.2.2](#) (Covered in The Materials: Yes)

Notes: -Smart Machines

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5986>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4510>

Standard: [SC.8.ET.3.1](#) (Covered in The Materials: Yes)

Notes: -Smart Machines

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5986>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4510>

Standard: [SC.8.HS.1.1](#) (Covered in The Materials: Yes)

Notes: -Life in a Digital World

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6078>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4507>

Standard: [SC.8.HS.2.3](#) (Covered in The Materials: Yes)

Notes: -Life in a Digital World

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6078>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4507>

Standard: [SC.8.HS.3.2](#) (Covered in The Materials: Yes)

Notes: -Life in a Digital World

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6078>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4507>

Standard: [SC.8.PE.1.1](#) (Covered in The Materials: Yes)

Notes: -Functions with Python Turtles -Animal Tracking and Converting Data Types

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5954>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6286>

Standard: [SC.8.PE.1.2](#) (Covered in The Materials: Yes)

Notes: -Functions with Python Turtles -Animal Tracking and Input/Output

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5954>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6285>

Standard: [SC.8.PE.1.3](#) (Covered in The Materials: Yes)

Notes: -Arguments and Parameters in Turtle Functions -Functions with Python Turtles

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5957>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4498>

Standard: [SC.8.PE.1.4](#) (Covered in The Materials: Yes)

Notes: -For Loops with Python Turtles -While Loops with Python Turtles

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5953>

(2) (Secondary)

<https://voyage.skillstruck.com/code/5959>

Standard: [SC.8.PE.1.5](#) (Covered in The Materials: Yes)

Notes: -Choosing the Best Algorithm

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6082>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4503>

Standard: [SC.8.PE.1.6](#) (Covered in The Materials: Yes)

Notes: -Inputs and Outputs with Python Turtles -Animal Tracking and Input/Output

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5945>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6285>

Standard: [SC.8.PE.1.7](#) (Covered in The Materials: Yes)

Notes: -Math and Python Turtles -Animal Tracking Engineering Project

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5950>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6289>

Standard: [SC.8.PE.1.8](#) (Covered in The Materials: Yes)

Notes: -Python Turtle Data Types -Animal Tracking and Variable Types

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5946>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6284>

Standard: [SC.8.PE.1.9](#) (Covered in The Materials: Yes)

Notes: -Math and Python Turtles -Visualizing Algorithms

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5950>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6254>

Standard: [SC.8.PE.1.10](#) (Covered in The Materials: Yes)

Notes: -While Loops with Python Turtles -For Loops with Python Turtles -If Statements and Conditionals with Python Turtles

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5953>

(2) (Secondary)

<https://voyage.skillstruck.com/code/5952>

Standard: [SC.8.PE.1.11](#) (Covered in The Materials: Yes)

Notes: -Choosing the Best Algorithm -Choosing the Best Algorithm

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6082>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4503>

Standard: [SC.8.PE.1.12](#) (Covered in The Materials: Yes)

Notes: -Choosing the Best Algorithm -Choosing the Best Algorithm

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6082>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4503>

Standard: [SC.8.PE.2.1](#) (Covered in The Materials: Yes)

Notes: -Inputs and Outputs with Python Turtles -Collecting Data

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5945>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4501>

Standard: [SC.8.PE.2.2](#) (Covered in The Materials: Yes)

Notes: -Data in Action -Animal Tracking Engineering Project

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6289>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4505>

Standard: [SC.8.PE.2.3](#) (Covered in The Materials: Yes)

Notes: -Data in Action -Animal Tracking Engineering Project

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6289>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4505>

Standard: [SC.8.PE.2.4](#) (Covered in The Materials: Yes)

Notes: -Data in Action -Animal Tracking Engineering Project

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6289>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4505>

Standard: [SC.8.PE.2.5](#) (Covered in The Materials: Yes)

Notes: -Data in Action -Animal Tracking Engineering Project

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6289>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4505>

Standard: [SC.8.PE.3.1](#) (Covered in The Materials: Yes)

Notes: -Algorithms Math and Models -<https://voyage.skillstruck.com/code/6289>

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6289>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4504>

Standard: [SC.8.PE.3.2](#) (Covered in The Materials: Yes)

Notes: -Patterns to Programs -Object-Oriented Programming -Creating an Instance

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6291>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6292>

Standard: [SC.8.PE.3.3](#) (Covered in The Materials: Yes)

Notes: -Algorithms Math and Models -Simulations -Animal Tracking Engineering Project

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6253>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6289>

(3) (Secondary)

<https://voyage.skillstruck.com/code/6257>

Standard: [SC.8.PE.4.1](#) (Covered in The Materials: Yes)

Notes: -Inside the Machines -Team Project and Software Development Life Cycle

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5987>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6257>

Standard: [SC.8.PE.4.2](#) (Covered in The Materials: Yes)

Notes: -Inside the Machines -Team Project and Software Development Life Cycle

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5987>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6257>

Standard: [SC.8.PE.4.3](#) (Covered in The Materials: Yes)

Notes: -Inside the Machines -Team Project and Software Development Life Cycle

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5987>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6257>

Standard: [SC.8.TI.2.1](#) (Covered in The Materials: Yes)

Notes: -Copyright -Converting Data Types Python Turtles / Ethical Responsibilities

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6248>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4481>

Standard: [SC.K12.CTR.1.1](#) (Covered in The Materials: Yes)

Notes: -Team Project and Software Development Life Cycle -Arguments and Parameters in Turtle Functions / Effective Teamwork

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6257>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4493>

Standard: [SC.K12.CTR.2.1](#) (Covered in The Materials: Yes)

Notes: -Nested Loops with Python Turtles -Arguments and Parameters in Turtle Functions / Effective Teamwork

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5958>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4493>

Standard: [SC.K12.CTR.3.1](#) (Covered in The Materials: Yes)

Notes: -Digital Communication and Creation -Introduction to Python Turtles / Keyboard Shortcuts

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6240>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4452>

Standard: [SC.K12.CTR.4.1](#) (Covered in The Materials: Yes)

Notes: -Pen Up & Fill Image -Turtle Error Messages & Debugging / Troubleshooting Devices

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5943>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4460>

Standard: [SC.K12.CTR.5.1](#) (Covered in The Materials: Yes)

Notes: -Else If Statements with Python Turtles -Algorithms, Math and Models

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6081>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6081>

Standard: [SC.K12.CTR.6.1](#) (Covered in The Materials: Yes)

Notes: -Making Sense of Data -Analyzing Data

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6079>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4499>

Standard: [SC.K12.CTR.7.1](#) (Covered in The Materials: Yes)

Notes: -Simulations -Team Project and Software Development Life Cycle -Animal Tracking Engineering Project

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6257>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6289>

Standard: [MA.K12.MTR.1.1](#) (Covered in The Materials: Yes)

Notes: -Team Project and Software Development Life Cycle -Animal Tracking Engineering Project

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6257>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6289>

Standard: [MA.K12.MTR.2.1](#) (Covered in The Materials: Yes)

Notes: -Visualizing Algorithms -Algorithms Math and Models

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6081>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6081>

Standard: [MA.K12.MTR.3.1](#) (Covered in The Materials: Yes)

Notes: -Math and Python Turtles -If Statements and Conditionals with Python Turtles

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5950>

(2) (Secondary)

<https://voyage.skillstruck.com/code/5952>

Standard: [MA.K12.MTR.4.1](#) (Covered in The Materials: Yes)

Notes: -Math and Python Turtles -Math and Python Turtles / Career Exploration

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5950>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4482>

Standard: [MA.K12.MTR.5.1](#) (Covered in The Materials: Yes)

Notes: -For Loops with Python Turtles -From Patterns to Programs

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6083>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4498>

Standard: [MA.K12.MTR.6.1](#) (Covered in The Materials: Yes)

Notes: -Else If Statements with Python Turtles -Math and Python Turtles / Career Exploration Presentation

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5953>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4482>

Standard: [MA.K12.MTR.7.1](#) (Covered in The Materials: Yes)

Notes: -Algorithms Math and Models

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6081>

(2) (Secondary)

<https://voyage.skillstruck.com/code/6081>

Standard: [ELA.K12.EE.1.1](#) (Covered in The Materials: Yes)

Notes: -Team Project and Software Development Life Cycle -While Loops with Python Turtles / From Consumer to Creator

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6257>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4497>

Standard: [ELA.K12.EE.2.1](#) (Covered in The Materials: Yes)

Notes: -Moving the Turtle -Programming Languages / Computer Parts

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5936>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4451>

Standard: [ELA.K12.EE.3.1](#) (Covered in The Materials: Yes)

Notes: -The Print Statement & Variables -Moving the Turtle / Processing

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5944>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4455>

Standard: [ELA.K12.EE.4.1](#) (Covered in The Materials: Yes)

Notes: -Digital Citizenship -Arguments and Parameters in Turtle Functions / Effective Teamwork

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6255>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4493>

Standard: [ELA.K12.EE.5.1](#) (Covered in The Materials: Yes)

Notes: -The Print Statement & Variables -Functions with Python Turtles / Binary

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/5944>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4490>

Standard: [ELA.K12.EE.6.1](#) (Covered in The Materials: Yes)

Notes: -Team Project and Software Development Life Cycle -While Loops with Python Turtles / From Consumer to Creator

Direct Links:

(1) (Secondary)

<https://voyage.skillstruck.com/code/6257>

(2) (Secondary)

<https://teacher.skillstruck.com/plans/4497>

Standard: [ELD.K12.ELL.MA.1](#) (Covered in The Materials: Yes)

Notes: -Accommodations for ESL/ESOL Students -Math and Python Turtles

Direct Links:

(1) (Secondary)

https://docs.google.com/document/d/1s4TFAjzTDurIkmf_tvU--fZFq2r34Dc3iUwxD-X8ZUA/edit

(2) (Secondary)

<https://voyage.skillstruck.com/code/5950>