

Name: Robert Lefrandt		Grading Quarter: 4	Week Beginning: 04/21/2025
School Year: 2024-25		Subject: Software & App Design	
Monday	Notes: Minecraft for Education (Python) Amazon Future Engineers (AFE) (Python) Kahn Academy Microsoft Visual Code for Educators Python resources: pythontutor	<p>Monday: Students will:</p> <ul style="list-style-type: none"> • continue to define what the Software & App Class is and what are the Arizona State Standards, skills, and possible credentials, certifications. • Understand the front and back end of a web-stack • Recognize various programming Learning Management Systems (LMS) • Aware of other programming resources <p>Lesson Overview: Online Courses, LMS examples: Learn JavaScript and Python</p> <ul style="list-style-type: none"> • Start with WebStack: front-end: HTML , CSS. JavaScript using freecodecamp • Create accounts for freecodecamp.org <ul style="list-style-type: none"> ◦ HTML, Cascading Style Sheets (CSS), JavaScript, Embedded Math (College Algebra) ◦ Resources: <ul style="list-style-type: none"> ▪ w3schools.com ▪ Stackoverflow.com • TechSmart: CS Python Learning Management System (LMS) <ul style="list-style-type: none"> ◦ Login to online Python Student Accounts ◦ www.techsmart.codes/ ◦ 4 lists ◦ 4.1 Lists and For-Each Loops ◦ <u>4.2 List Operations</u> ◦ <u>4.3 Advanced List Operations</u> ◦ <u>4.4 Strings as Collections</u> ◦ <u>4.5 String Operations</u> ◦ <u>String Operations-Methods</u> ◦ <u>Unit 4 Test</u> • Raspberry Pi Pico – Thonny(IDE) Python <ul style="list-style-type: none"> ◦ Met/w Fish & Game- Ari && Charles-Robotics • VEX Robotics- –vr.vex.com <ul style="list-style-type: none"> ◦ VEX V5-High Stakes ◦ VEX IQ-Rapid Relay- Block/Python ◦ Leading Arizona – BRHS Top 1-6 scores, BRES #6 • AI/VEX AI 	<p>Academic Standards:</p> <p>Arizona CTE: Software & App Design 11.0202.00 Technical Standards</p> <p>Domain 1 Coding/ Programming STANDARD 17.0 EMPLOY OBJECT-ORIENTED PROGRAMMING TECHNIQUES</p> <p>Domain 2 Software/ Application Development STANDARD 12.0 DEVELOP A PROGRAM</p>

Tuesday	<p>Notes: Minecraft for Education (Python)</p> <p>Amazon Future Engineers (AFE) (Python)</p> <p>Kahn Academy</p> <p>Microsoft Visual Code for Educators Python</p> <p>resources: pythontutor</p>	<p>Students will:</p> <ul style="list-style-type: none"> • continue to define what the Software & App Class is and what are the Arizona State Standards, skills, and possible credentials, certifications. • Understand the front and back end of a web-stack • Recognize various programming Learning Management Systems (LMS) • Aware of other programming resources <p>Lesson Overview: Online Courses, LMS examples: Learn JavaScript and Python</p> <ul style="list-style-type: none"> • Start with WebStack: front-end: HTML , CSS. JavaScript using freecodecamp • Create accounts for freecodecamp.org <ul style="list-style-type: none"> ◦ HTML, Cascading Style Sheets (CSS), JavaScript, Embedded Math (College Algebra) ◦ Resources: <ul style="list-style-type: none"> ▪ w3schools.com ▪ Stackoverflow.com • TechSmart: CS Python Learning Management System (LMS) <ul style="list-style-type: none"> ◦ Login to online Python Student Accounts ◦ www.techsmart.codes/ ◦ 4 lists ◦ 4.1 Lists and For-Each Loops ◦ 4.2 List Operations ◦ 4.3 Advanced List Operations ◦ 4.4 Strings as Collections ◦ 4.5 String Operations ◦ String Operations-Methods ◦ Unit 4 Test • Raspberry Pi Pico – Thonny(IDE) Python <ul style="list-style-type: none"> ◦ Met/w Fish & Game- Ari && Charles-Robotics • VEX Robotics- –vr.vex.com <ul style="list-style-type: none"> ◦ VEX V5-High Stakes ◦ VEX IQ-Rapid Relay- Block/Python ◦ Leading Arizona – BRHS Top 1-6 scores, BRES #6 • AI/VEX AI 	<p>Academic Standards:</p> <p>Arizona CTE: Software & App Design 11.0202.00 Technical Standards</p> <p>Domain 1 Coding/ Programming STANDARD 17.0 EMPLOY OBJECT-ORIENTED PROGRAMMING TECHNIQUES</p> <p>Domain 2 Software/ Application Development STANDARD 12.0 DEVELOP A PROGRAM</p>
---------	---	---	--

<p>Wednesday</p>	<p>Notes: Minecraft for Education (Python) Amazon Future Engineers (AFE) (Python) Kahn Academy Microsoft Visual Code for Educators Python resources: pythontutor</p>	<p>Students will:</p> <ul style="list-style-type: none"> • continue to define what the Software & App Class is and what are the Arizona State Standards, skills, and possible credentials, certifications. • Understand the front and back end of a web-stack • Recognize various programming Learning Management Systems (LMS) • Aware of other programming resources <p>Lesson Overview: Online Courses, LMS examples: Learn JavaScript and Python</p> <ul style="list-style-type: none"> • Start with WebStack: front-end: HTML , CSS. JavaScript using freecodecamp • Create accounts for freecodecamp.org <ul style="list-style-type: none"> ◦ HTML, Cascading Style Sheets (CSS), JavaScript, Embedded Math (College Algebra) ◦ Resources: <ul style="list-style-type: none"> ▪ w3schools.com ▪ Stackoverflow.com • TechSmart: CS Python Learning Management System (LMS) <ul style="list-style-type: none"> ◦ Login to online Python Student Accounts ◦ www.techsmart.codes/ ◦ 4 lists ◦ 4.1 Lists and For-Each Loops ◦ 4.2 List Operations ◦ 4.3 Advanced List Operations ◦ 4.4 Strings as Collections ◦ 4.5 String Operations ◦ String Operations-Methods ◦ Unit 4 Test • Raspberry Pi Pico – Thonny(IDE) Python <ul style="list-style-type: none"> ◦ Met/w Fish & Game- Ari && Charles-Robotics • VEX Robotics- –vr.vex.com <ul style="list-style-type: none"> ◦ VEX V5-High Stakes ◦ VEX IQ-Rapid Relay- Block/Python ◦ Leading Arizona – BRHS Top 1-6 scores, BRES #6 • AI/VEX AI 	<p>Academic Standards:</p> <p>Arizona CTE: Software & App Design 11.0202.00 Technical Standards</p> <p>Domain 1 Coding/ Programming STANDARD 17.0 EMPLOY OBJECT-ORIENTED PROGRAMMING TECHNIQUES</p> <p>Domain 2 Software/ Application Development STANDARD 12.0 DEVELOP A PROGRAM</p>
------------------	---	---	--

Thursday	<p>Notes: Minecraft for Education (Python)</p> <p>Amazon Future Engineers (AFE) (Python)</p> <p>Kahn Academy</p> <p>Microsoft Visual Code for Educators Python</p> <p>resources: pythontutor</p>	<p>Students will:</p> <ul style="list-style-type: none"> • continue to define what the Software & App Class is and what are the Arizona State Standards, skills, and possible credentials, certifications. • Understand the front and back end of a web-stack • Recognize various programming Learning Management Systems (LMS) • Aware of other programming resources <p>Lesson Overview: Online Courses, LMS examples: Learn JavaScript and Python</p> <ul style="list-style-type: none"> • Start with WebStack: front-end: HTML , CSS. JavaScript using freecodecamp • Create accounts for freecodecamp.org <ul style="list-style-type: none"> ◦ HTML, Cascading Style Sheets (CSS), JavaScript, Embedded Math (College Algebra) ◦ Resources: <ul style="list-style-type: none"> ▪ w3schools.com ▪ Stackoverflow.com • TechSmart: CS Python Learning Management System (LMS) <ul style="list-style-type: none"> ◦ Login to online Python Student Accounts ◦ www.techsmart.codes/ ◦ 4 lists ◦ 4.1 Lists and For-Each Loops ◦ 4.2 List Operations ◦ 4.3 Advanced List Operations ◦ 4.4 Strings as Collections ◦ 4.5 String Operations ◦ String Operations-Methods ◦ Unit 4 Test • Raspberry Pi Pico – Thonny(IDE) Python <ul style="list-style-type: none"> ◦ Met/w Fish & Game- Ari && Charles-Robotics • VEX Robotics- –vr.vex.com <ul style="list-style-type: none"> ◦ VEX V5-High Stakes ◦ VEX IQ-Rapid Relay- Block/Python ◦ Leading Arizona – BRHS Top 1-6 scores, BRES #6 • AI/VEX AI 	<p>Academic Standards:</p> <p>Arizona CTE: Software & App Design 11.0202.00 Technical Standards</p> <p>Domain 1 Coding/ Programming STANDARD 17.0 EMPLOY OBJECT-ORIENTED PROGRAMMING TECHNIQUES</p> <p>Domain 2 Software/ Application Development STANDARD 12.0 DEVELOP A PROGRAM</p>
----------	---	---	--

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Friday</p>	<p>Notes: Minecraft for Education (Python) Amazon Future Engineers (AFE) (Python) Kahn Academy Microsoft Visual Code for Educators Python</p>	<p>Students will:</p> <ul style="list-style-type: none"> • continue to define what the Software & App Class is and what are the Arizona State Standards, skills, and possible credentials, certifications. • Understand the front and back end of a web-stack • Recognize various programming Learning Management Systems (LMS) • Aware of other programming resources <p>Lesson Overview: Online Courses, LMS examples: Learn JavaScript and Python</p> <ul style="list-style-type: none"> • Start with WebStack: front-end: HTML , CSS. JavaScript using freecodecamp • Create accounts for freecodecamp.org <ul style="list-style-type: none"> ◦ HTML, Cascading Style Sheets (CSS), JavaScript, Embedded Math (College Algebra) ◦ Resources: <ul style="list-style-type: none"> ▪ w3schools.com ▪ Stackoverflow.com • TechSmart: CS Python Learning Management System (LMS) <ul style="list-style-type: none"> ◦ Login to online Python Student Accounts ◦ www.techsmart.codes/ ◦ 4 lists ◦ 4.1 Lists and For-Each Loops ◦ 4.2 List Operations ◦ 4.3 Advanced List Operations ◦ 4.4 Strings as Collections ◦ 4.5 String Operations ◦ String Operations-Methods ◦ Unit 4 Test • Raspberry Pi Pico – Thonny(IDE) Python <ul style="list-style-type: none"> ◦ Met/w Fish & Game- Ari && Charles-Robotics • VEX Robotics- vr.vex.com <ul style="list-style-type: none"> ◦ VEX V5-High Stakes ◦ VEX IQ-Rapid Relay- Block/Python ◦ Leading Arizona – BRHS Top 1-6 scores, BRES #6 • AI/VEX AI 	<p>Academic Academic Standards:</p> <p>Arizona CTE: Software & App Design 11.0202.00 Technical Standards</p> <p>Domain 1 Coding/ Programming STANDARD 17.0 EMPLOY OBJECT-ORIENTED PROGRAMMING TECHNIQUES</p> <p>Domain 2 Software/ Application Development STANDARD 12.0 DEVELOP A PROGRAM</p>
---	---	--	---