Name: Robert Lefrandt		Grading Quarter: 3	= =	Week Beginning: Week 7 02/19/2024	
School Year: 2023-24		Subject: Software & App Design			
Notes:  PCEPTM - Certified Entry-Level Python Programmer (Exam PCEP- 30-0x)  PCEPTM - Certified Entry-Level Python Programmer certification shows that the individual is familiar with universal computer programming concepts like data types, containers, functions, conditions, loops, as well as Python programming language syntax, semantics, and the runtime environment.  pythoninstitute.o rg/pcep  Certified Internet Web (CIW) JavaScript Specialist	O2/19/2024 Software & Objective: Students will:	App Design —  efine what the Software & App Class is an Ills, and possible credentials, certification: ne front and backend of a web-stack int-end: HTML and CSS using freecodecam art: CS Python Learning Management System (EMS) — Student Accounts Login pp Design: Define what is.  ols. Stackoverflow, pythontutor stem (LMS) — Student Accounts Login pp — WebStack: per school day, resteps ThursThurs. per school week arn HTML by Building a Cat Photo App (starn Basic CSS by Building a Cafe Menu (starn CSS Colors by Building a Set of Colore unting 1st week, wk2-4, counting 3 week the in Course "CSS Colors by Building a Set of Colore unting 1st week, wk2-4, counting 3 week to in Course "CSS Colors by Building a Set of Colore unting 1st Lesson 1.1: Statements and Variables Lesson 1.2: Libraries  Lesson 1.3: Values  Lesson 1.4: Expressions  Unit 1 Test Review/Test  Design - 11.0202.00	d what are the Arizona State  because the Arizona State  characteristics  peps 1-69)  eps 1-91)  d Markers (steps 1-94)  csth done: 3 x 75 = 225 steps  t of Colored Markers"	Academic Standards:  STANDARD 4.0 UTILIZE PRIMITIVE DATA TYPES AND STRINGS IN WRITING PROGRAMS 4.1 Declare numeric Boolean, character, string variables, and float and double, int  4.2 Choose the appropriate data type for a given situation  4.3 Identify the correct syntax and usage for constants and variables in a program Naming conventions Difference and usage  STANDARD 12.0 DEVELOP A PROGRAM  12.1 Use a program editor to enter and modify code  12.2 Identify correct input/output statements  12.3 Choose the correct method of assigning input to variables including data sanitization  STANDARD 14.0 UTILIZE AND CREATE COMMUNITY RESOURCES  14.1 Use standard library functions	

	Notes:	02/20/2024 -	Academic
	110103.	02/20/2024	
			Standards:
		Objective: Students will:	
		continue to define what the Software & App Class is and what are the Arizona State	STANDARD 4.0 UTILIZE
	РСЕРТМ –	Standards, skills, and possible credentials, certifications.	PRIMITIVE DATA
	Certified	Understand the front and backend of a web-stack	TYPES AND STRINGS IN WRITING
	Entry-Level Python Programmer	Start with front-end: HTML and CSS using freecodecamp	PROGRAMS
		Begin TechSmart: CS Python Learning Management System (LMS)	4.1 Declare numeric
	(Exam PCEP-		Boolean, character,
	30-0x)	Lesson Overview:	string variables, and
	,	Look at Arizona State Standards	float and double, int
	PCEP™ –	Software & App Design: Define what is.	
	Certified	• Resources	4.2 Choose the
	Entry-Level	<ul> <li>w3schools. Stackoverflow, pythontutor</li> </ul>	appropriate data type for a given situation
	Python	Learning Management System (LMS) – Student Accounts Login	ioi a given situation
	Programmer certification	<ul> <li>FreeCodeCamp – WebStack:</li> </ul>	4.3 Identify the correct
	shows that	<ul> <li>15 Steps per school day,</li> </ul>	syntax and usage for
	the individual	• 15x 5 = 75 steps ThursThurs. per school week	constants and
	is familiar with	<ul> <li>Learn HTML by Building a Cat Photo App (steps 1-69)</li> </ul>	variables in a program
	universal	Learn Basic CSS by Building a Cafe Menu (steps 1-91)      Case Call and Case Case (See Acade Acad	<ul> <li>Naming conventions</li> </ul>
	computer	<ul> <li>Learn CSS Colors by Building a Set of Colored Markers (steps 1-94)</li> <li>* Not counting 1<sup>st</sup> week, wk2-4, counting 3 weeks<sup>th</sup> done: 3 x 75 = 225 steps</li> </ul>	<ul> <li>Difference and usage</li> </ul>
	programming	<ul> <li>* Not counting 1st week, wk2-4, counting 3 weeksth done: 3 x 75 = 225 steps</li> <li>Should be in Course "CSS Colors by Building a Set of Colored Markers"</li> </ul>	STANDARD 12.0
_	concepts like	. •	DEVELOP A PROGRAM
l e	data types, containers,	TechSmart – Python	12.1 Use a program
)S:	functions,	<ul> <li>Unit 1: Linear Programs</li> </ul>	editor to enter and
Tuesday	conditions,	<ul> <li>Lesson 1.1: Statements and Variables</li> </ul>	modify code
~	loops, as well	• Lesson 1.2: Libraries	12.2 Identify correct
	as Python programming	• Lesson 1.3: Values	input/output
	language	• Lesson 1.4: Expressions	statements
	syntax,	<ul> <li>Unit 1 Test Practice Test Review/Unit 1 Test</li> </ul>	12.2.65
	semantics,		12.3 Choose the correct method of
	and the runtime		assigning input to
	environment.	Software and App Design - 11.0202.00	variables including
	CHVII OHITICHE.	•	data sanitization
	pythoninstitute.o	Arizona Department of Education Website:	
	rg/pcep	Program Description/Industry Credentials/Coherent Sequence/	STANDARD 14.0
	187   187	www.azed.gov/cte/sd/	UTILIZE AND CREATE
	Certified Internet		COMMUNITY RESOURCES
	Web (CIW)	***	RESOURCES
	JavaScript	***	14.1 Use standard
	Specialist		library functions
	1		

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#### PCEPTM – Certified Entry-Level Python Programmer (Exam PCEP-30-0x)

Notes:

РСЕРТМ – Certified Entry-Level Python Programmer certification shows that the individual is familiar with universal computer programming concepts like data types, containers, functions, conditions, loops, as well as Python programming language syntax, semantics, and the runtime environment.

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### Certified Internet Web (CIW) JavaScript Specialist

02/21/2024 -

#### Objective:

#### Students will:

- 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 backend of a web-stack
- Start with front-end: HTML and CSS using freecodecamp
- Begin TechSmart: CS Python Learning Management System (LMS)

#### **Lesson Overview:**

- Look at Arizona State Standards
- Software & App Design: Define what is.
- Resources
  - w3schools. Stackoverflow, pythontutor

Learning Management System (LMS) – Student Accounts Login

- FreeCodeCamp WebStack:
  - 15 Steps per school day,
  - 15x 5 = 75 steps Thurs.-Thurs. per school week
    - Learn HTML by Building a Cat Photo App (steps 1-69)
    - Learn Basic CSS by Building a Cafe Menu (steps 1-91)
    - Learn CSS Colors by Building a Set of Colored Markers (steps 1-94)
  - \* Not counting 1<sup>st</sup> week, wk2-4, counting 3 weeks<sup>th</sup> done: 3 x 75 = 225 steps
  - Should be in Course "CSS Colors by Building a Set of Colored Markers"
- TechSmart Python
  - Unit 1: Linear Programs
    - Lesson 1.1: Statements and Variables
    - Lesson 1.2: Libraries
    - Lesson 1.3: Values
    - Lesson 1.4: Expressions
    - Unit 1 Test Practice Test Review/Unit 1 Test
    - Code Your Own: Planning:Madlibs, Chatbot, Task Reminder

#### Software and App Design - 11.0202.00

<u>Arizona Department of Education Website:</u>
Program Description/Industry Credentials/Coherent Sequence/www.azed.gov/cte/sd/

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# Academic Standards:

#### STANDARD 4.0 UTILIZE PRIMITIVE DATA TYPES AND STRINGS IN WRITING PROGRAMS

- 4.1 Declare numeric Boolean, character, string variables, and float and double, **int**
- 4.2 Choose the appropriate data type for a given situation
- 4.3 Identify the correct syntax and usage for constants and variables in a program
- Naming conventions
- Difference and usage

#### STANDARD 12.0 DEVELOP A PROGRAM

- 12.1 Use a program editor to enter and modify code
- 12.2 Identify correct input/output statements
- 12.3 Choose the correct method of assigning input to variables including data sanitization

#### STANDARD 14.0 UTILIZE AND CREATE COMMUNITY RESOURCES

14.1 Use standard library functions

#### Notes: 02/22/2024 -Academic Standards: Objective: Students will: РСЕРТМ -**STANDARD 4.0 UTILIZE** continue to define what the Software & App Class is and what are the Arizona State Certified PRIMITIVE DATA Standards, skills, and possible credentials, certifications. **Entry-Level TYPES AND STRINGS** Understand the front and backend of a web-stack **Python IN WRITING Programmer** Start with front-end: HTML and CSS using freecodecamp **PROGRAMS** Begin TechSmart: CS Python Learning Management System (LMS) (Exam PCEP-4.1 Declare numeric 30-0x) Boolean, character, **Lesson Overview:** string variables, and PCEPTM -Look at Arizona State Standards float and double, int Certified Software & App Design: Define what is. Entry-Level 4.2 Choose the Python appropriate data type w3schools. Stackoverflow, pythontutor Programmer for a given situation Learning Management System (LMS) – Student Accounts Login certification FreeCodeCamp - WebStack: shows that 4.3 Identify the correct 15 Steps per school day, the individual syntax and usage for is familiar with 15x 5 = 75 steps Thurs.-Thurs. per school week constants and universal Learn HTML by Building a Cat Photo App (steps 1-69) variables in a program computer Learn Basic CSS by Building a Cafe Menu (steps 1-91) Naming conventions programming Learn CSS Colors by Building a Set of Colored Markers (steps 1-94) • Difference and usage Thursday concepts like \* Not counting 1st week, wk2-4, counting 3 weeksth done: 3 x 75 = 225 steps data types, Should be in Course "CSS Colors by Building a Set of Colored Markers" STANDARD 12.0 containers, **DEVELOP A PROGRAM** TechSmart - Python functions. 12.1 Use a program Unit 1: Linear Programs conditions, editor to enter and loops, as well Lesson 1.1: Statements and Variables modify code as Python Lesson 1.2: Libraries programming 12.2 Identify correct Lesson 1.3: Values language input/output syntax, statements Lesson 1.4: Expressions semantics. Unit 1 Test Practice Test Review/Unit 1 Test and the 12.3 Choose the Code Your Own: Planning:Madlibs, Chatbot, Task Reminder runtime correct method of environment. assigning input to Software and App Design - 11.0202.00 variables including data sanitization pythoninstitute.o Arizona Department of Education Website: rg/pcep Program Description/Industry Credentials/Coherent Sequence/ STANDARD 14.0 www.azed.gov/cte/sd/ **UTILIZE AND CREATE Certified Internet** COMMUNITY Web (CIW) **RESOURCES** JavaScript Specialist 14.1 Use standard

library functions

### PCEPTM – Certified Entry-Level Python

Notes:

Programmer (Exam PCEP-30-0x)

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Certified Internet Web (CIW) JavaScript Specialist

### 02/23/2024 - No School

Objective: Students will:

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  - \* Not counting 1st week, wk2-4, counting 3 weeksth done: 3 x 75 = 225 steps
  - Should be in Course "CSS Colors by Building a Set of Colored Markers"
- TechSmart Python
  - Unit 1: Linear Programs
    - Lesson 1.1: Statements and Variables
    - Lesson 1.2: Libraries
    - Lesson 1.3: Values
    - Lesson 1.4: Expressions
    - Unit 1 Test Practice Test Review/Unit 1 Test
    - Code Your Own: Planning:Madlibs, Chatbot, Task Reminder
  - Conditionals
    - 2.1 Unit 2 Introduction/2.1 If Statements

#### Software and App Design - 11.0202.00

<u>Arizona Department of Education Website:</u>
Program Description/Industry Credentials/Coherent Sequence/
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14.1 Use standard library functions