**AP CSP CodeX**

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| **LESSON: Selecting a Create PT Project** | | **Time: 45 minutes** |
| **Project Goal:** Students will review remixes and PT Practice programs to brainstorm new project ideas.  **Learning Targets**   * I can review the requirements for the Create PT. * I can list things I can and cannot do during the Create PT class periods. * I can brainstorm project ideas. | **Key Concepts**   * Students cannot submit a project that has been used in class or received feedback from the teacher. * The Create PT project can be based on or similar to a previous project. The new project shouldn’t just be an old project with the variable names changed or items in the list different. It needs to be significant enough to say it is an original program. * Students can use AI or other sources to aid in the creation of their project. If they do so, they must give attribution. The project does not need to be long or complicated, and students shouldn’t need any help with their code other than what their peers can provide. * Remember: the score on the Create PT isn’t really about the project, but what students are able to communicate about their project through written responses. | |
| **Assessment Opportunities**   * Selecting a Create PT Project Activity Guide | **Success Criteria**   * Review Create PT requirements, dos and don’ts * Brainstorm ideas from PT Practice programs * Brainstorm ideas from a remix or mission | |
| **AP CSP Framework**  **CRD-1.C** Demonstrate effective interpersonal skills during collaboration.  **Computational Thinking Practices: 6.A** Collaborate in the development of solutions. | **Materials**   * Selecting a Create PT Project slides * Selecting a Project Activity Guide / Answers * Access to the four PT Practice programs * Create PT Planning Guide * AP CSP Student Handouts | |
| **Teacher Notes**   * This lesson is designed to be given just before the 9 hours of Create PT Project time begins. * This lesson will be completed on the computer, using CodeSpace to access programs. * The activity guide should be distributed digitally. Space is provided for students to record their brainstorming ideas during the lesson. * Students will use their PT Practice programs during this lesson. They should use their own code, but you can also give them code to practice with if needed. * Follow the slides for instructions and guidance. Additional help is provided in the Teaching Guide below. | | |

**Teaching Guide**

**Warm-up (5 minutes)**

🧑‍🤝‍🧑 **Discuss** – Use a discussion strategy, like journaling, working at boards, selecting random students, or a form of think-pair-share. Hey, you can’t review this information too many times, right!?

* Slides 2-3
* Review the requirements for the Create Performance Task and digital portfolio submissions.

**Selecting a Project (40 minutes)**

💻 Students should work with a collaborative group.

**IMPORTANT!:** Students will refer to all four PT Practice programs from earlier lessons. They need to have them completed and accessible. Alternatively, you can give students the code from the earlier lessons.

💡 **Teaching tip – Slides 4-6**

Overview of the Create PT Project: things they can do and things they cannot do.

Emphasize: The project needs to be original, not a program they used in class for any reason. It can be a fairly simple project and still meet the requirements.

💡 **Teaching tip – Slides 7-11**

Students review PT Practice #1. They can write their brainstorm ideas on the activity guide. Slides 9-11 give some suggestions for a remix. You may want students to return to the activity guide and further brainstorm ideas after seeing the suggestions.

💡 **Teaching tip – Slides 12-15**

Students review PT Practice #2. They can write their brainstorm ideas on the activity guide. Slides 14-15 give some suggestions for a remix. You may want students to return to the activity guide and further brainstorm ideas after seeing the suggestions.

💡 **Teaching tip – Slides 16-19**

Students review PT Practice #3. They can write their brainstorm ideas on the activity guide. Slides 18-19 give some suggestions for a remix. You may want students to return to the activity guide and further brainstorm ideas after seeing the suggestions.

💡 **Teaching tip – Slides 20-24**

Students review PT Practice #4. They can write their brainstorm ideas on the activity guide. Slides 22-24 give some suggestions for a remix. You may want students to return to the activity guide and further brainstorm ideas after seeing the suggestions.

💡 **Teaching tip – Slide 25**

Students pick a remix or mission project they liked. They can write their brainstorm ideas on the activity guide. This is a good time to have a group share-out, gallery walk, etc. for students to share their ideas.

💡 **Teaching tip – Slides 26-28**

These slides review the Create PT, and remind students about what is important, give tips and suggestions, etc.

💡 **Teaching tip – Slides 29-30**

The last slides talks about having a plan, and that they can use a remix planning guide. A Create PT planning guide is available as a resource. You can have students access it and go over it in case they want to use it.

The activity guide ends with students thinking about their project and how they want to proceed – if they will work with a partner or not, and brainstorming ideas for their own project.

**Wrap-Up (5 minutes)**

The wrap-up is a chance for students to write notes to themselves of things they want to remember. This is also a good opportunity for discussion.

Formative Assessment:

* Daily reflection or journal entry
* Completed activity guide
* Class discussion
* Exit ticket