

Culturally Responsive Pedagogy in Computer Science

Instructional Planning Template

Instructions: Fill in the CRP in CS lesson plan using the template below.

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Title:	
Grade Level:	
Content Area/s: Coding	
Length: 5 days	
Which CS Standards are addressed? CSTA K-12 Standards Knowledge Constructor, one of the 7 pillars of Arizona's Educational Technology Standards https://www.azed.gov/sites/default/files/2022/01/Arizona%20Educational%20Technology%20Standards.pdf	
Are other standards included? New Mexico Content Standards Arizona Content Standards Common Core Literacy Standards ISTE Standards for Students	
Learning Objective(s): What is the purpose of your lesson? An understanding, attitude, appreciation? A concept? A skill? Ability? State specifically what you intend to have your students achieve, present, or demonstrate.	<ul style="list-style-type: none">• Students will examine an application to extend their knowledge and practice of Google searching;• Students will experiment with the help of an app template• They will design app screens that are culturally significant to them• They will get an introduction to coding

<p>Instructional Process(es): What teaching method(s) will most likely bring about the desired understanding, concept, skill(s), abilities, etc. Lesson is clearly sequenced and with appropriate transitions.</p>	<p><u>Day 1:</u></p> <ul style="list-style-type: none"> • State objectives & expectations for the week • Pre assessment quiz • Show sample app to students & explain the relation between the different screens • Students start brainstorming & designing their screens on paper <p><u>Day 2:</u></p> <ul style="list-style-type: none"> • Completion of screens on paper • Introduction to Camel language • Students design screens on provided template • Students ID the elements on their screen using Camel language <p><u>Day 3:</u></p> <ul style="list-style-type: none"> • Introduction to coding: comments/functions/variables • Students create a comment & function <p><u>Day 4:</u></p> <ul style="list-style-type: none"> • Students continue coding <p><u>Day 5:</u></p> <ul style="list-style-type: none"> • Post assessment: students present their app
<p>Classroom Learning Environment: How will you organize your classroom so that your students achieve your stipulated objective(s)? Whole class, small groups, individual, team learning, learning centers, individual centers, and group projects?</p>	<p>It will be a small group of students, working individually or in pairs according to their preferences. Each student will have access to a laptop with internet. I will use a large screen to facilitate visual sharing of the lesson.</p>

<p>Materials/Resources/Technology: What materials must students use to attain the objective(s)? What technological support is needed to implement the materials?</p>	<p>Materials:</p> <ol style="list-style-type: none"> 1. Pre assessment quiz 2. Laptop computers with internet 3. Large screen 4. Code.org website 5. App template provided to students 6. Model app
<p>Inclusion: Understands the development and use of inclusive educational practices; and addresses the needs of diverse learners.</p>	<ul style="list-style-type: none"> • Will set clear expectations • Will employ positive reinforcement / encouragement • Will facilitate students voice & independence • Will give choices to students: work independently/in pairs
<p>Culturally and linguistically responsive pedagogy How does your lesson/unit connect to CRP and the cultural, linguistic and/or home experiences of your students?</p>	<p>Students will inspire themselves from their own cultural background when designing their screens.</p>

<p>Assessment of Students' performance:</p> <p>What procedures, tools, and/or instruments will you use to determine if your students met the learning objective(s)?</p> <p>Different assessments are used: diagnostic, formative and summative. Keep in mind that objectives, assessment and instruction are aligned with each other.</p>	<p>Pre assessment: <u>quiz</u> on the following points:</p> <ul style="list-style-type: none"> • Student habits when they do online research • Student awareness & use of apps in their daily lives <p>Post assessment:</p> <ul style="list-style-type: none"> • Student <u>app presentation</u>