## Standard 2.AP.PD.02

Give attribution to ideas, solutions, and creations of others, verbally and written, while writing and developing **programs**.

#### **Essential Skills**

Give written credit to the creator (author, artist, etc.) when using ideas or artifacts of others' when writing a **computer program**.

#### **Essential Questions**

How do you identify the creator of an idea, the author of a website or a book, the artist who created a picture or music, etc.?

How can you give credit when you use something created by someone else?

When is it acceptable to re-use someone else's creation or work? When is it not acceptable?

#### Explanation

Students should identify and orally acknowledge the creators of ideas, pictures, music, code, etc. that they use or remix while creating **algorithms** and **computer programs**. If the student's work is in writing, the student should identify their source in writing, but a formal citation is not required. Students should begin to understand that it is important for the creator to give permission to reuse or **remix** which can be as simple as saying "OK." The difference between cheating and reusing or remixing should be made clear.

### Think of this as similar to....

If you create a game and your friend draws the pictures for the game, you have to share that your friend drew the pictures.

# Implementation Examples—What would this look like in the classroom?

Title	Description	Link	Content Connection & Notes
Earth Science Animation	<ul> <li>Grade K Students include pictures drawn by their classmates to create an algorithm or computer program describing weather conditions over time. The information should be based on weather data collected by the class (or previous classes). Students should identify the creators of the pictures.</li> <li>Grade 1Students include pictures drawn by their classmates to create an algorithm or computer program describing the changes in how we see the sun, moon and/or stars over time. The information should be based on observations collected by the class (or previous classes). Students should give credit to the creators of the pictures.</li> <li>Grade 2Students develop an animation of an Earth event (volcano, earthquake, erosion, etc.) using a block-based language and use an image from an approved website or drawn by a teammate. The students should give credit in writing to the website or peer for the contributions.</li> </ul>		This lesson also aligns with <b>NGSS</b> K-ESS2-1 1-ESS1-1, 2-ESS1-1; In Kindergarten, use in conjunction with the lesson <i>Weather</i> <i>Predictions</i> that aligns with <b>CS</b> DA.CVT.01 and DA.IM.01
Ideals	<b>Grade 2</b> Students can create a computer program to sort American symbols (including people, images, songs, and poems) according to the democratic values each represents. Students will identify relevant information in appropriate sources and use the information as evidence to support the association of the symbol with one or more democratic values. Student then use that information to create a computer program and provide appropriate attribution to the sources within the computer program or in the program notes.		This lesson also aligns with <b>SS</b> 2.1 Civics: Democracy and 2.6 Skills and Processes: Evaluating Sources and Using Evidence;

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These annotations are a collaboration between Maryland Center for Computing Education and the Maryland State Department of Education.