Subject #1: Art/Graphics

Project #8: Cloning in Photoshop. Add or subtract features from a picture (i.e., flowers); clone from one picture to another. This can be used to create a picture for a classroom unit of inquiry, or to teach about ethical issues (because cloning looks authentic)

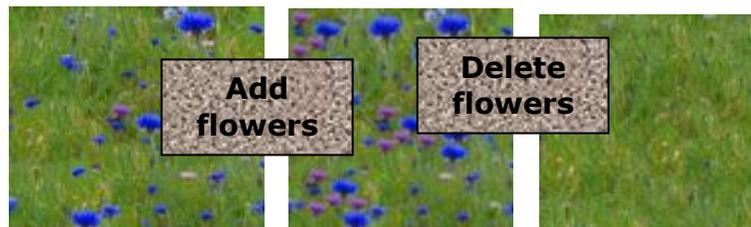| Higher-order thinking skills	Technology-specific:	Subject Area/ Learning-specific	Standard: NETS-S
Applying information, creating knowledge	*photo editing,*	*Communication skills, creativity and innovation*	2.b, 2.c

Grade level: 5-8
Prior knowledge: Project 5 (Photoshop Basx)
Time required: 45 minutes
Software required: Adobe Photoshop
Vocabulary: clone, anchor point, Ctrl+click, click,

Lesson Description
- Adobe Photoshop is the grown-up KidPix and default photo-editing program for serious graphics artists.
- This series of projects (#5-11) introduces students to a challenging program in an easy to understand way, avoiding the frustration and confusion inherent in most Photoshop training.
- Demonstrate first, and then walk around to be sure students can find each tool.

Computer Activity
- The clone tool duplicates a hard to crop-and-copy image (like the flowers below) or deletes part of a background—a sign or a post in a nature scene—you don't want there.
- You can clone within a picture (as with the flowers), or from one picture to another (see next page—adding polar bears to the sea cave).
- To duplicate part of a picture (in the case below, the flowers), select the clone tool and create an anchor point

on a flower with Ctrl+Click. Now paint with the mouse where you want to clone it (see second picture below).
- To delete part of a picture (such as the flowers below), set the anchor point on the green field. Click on a flower and paint over it with the green field until the flowers melt into the background. Be sure to pay attention to shadows, obstructions, etc., so the deletion appears seamless.

Extensions
- Enlarge one bloom by cloning additional petals around the stamen
- Check out my Photoshop wiki. See what my students are doing today.

Troubleshooting Tips
- *It doesn't look right. (check your starting point. Does it match the color and shade of the end point? Have you picked up any extras in the clone process?)*
- *I'm trying to drag the picture but I get an error message (Check your layers. Do you have the correct layer highlighted?)*

Add flowers / Delete flowers

Start with a picture with an image you like. Select a background you'd like your image to move into. Clone the original image into its new location.

Polar bears cloned into sea cave

Original picture

Additional polar bears cloned