

Mirror Images

Grade Level: 4-6
Time Frame: 1 hour

Overview	The purpose of this lesson is to teach students about mirror images and symmetry. Students will select a photo, crop out half of the photo using Picjuice, print out the cropped photo, and then hand draw the other half back in by mirroring the remaining half.
Objective	<p>Following this lesson, students will have:</p> <ul style="list-style-type: none"> ▪ Discussed symmetry and mirror imaging ▪ Cropped a photo using a simple editing application, Picjuice ▪ Printed the cropped photo ▪ Drawn a mirror image of the remaining half of the photo
Materials	<ul style="list-style-type: none"> ▪ Computers (one for each student) with Internet connection ▪ Individual photos which you will have already saved onto each computer ▪ Color Printer ▪ Scissors ▪ Rulers ▪ Glue ▪ Pencils ▪ Colored Pencils ▪ Drying Rack
Procedure	<ol style="list-style-type: none"> 1. As a class, discuss the importance of both symmetry and mirror imaging in real life and in art. 2. Demonstrate using Picjuice and ask students to follow the same steps to crop out the right half of their photos and resize them so that they are big enough to work with. 3. Ask students to save the edited image to their computers and then print them. 4. Ask students to return to art tables, cut out their photos, and paste them to a piece of plain white paper so that there is plenty of room on the right side to draw in the missing half. 5. Have students then draw a grid and outline of the rest of the photo bow. 6. Have the students then get out their tools of a ruler, colored pencils, and a regular pencil to sketch the mirror image of the cropped photo onto the empty side of the

	<p>paper.</p> <p>7. Ask students to place their drawings on the drying rack at the end of the class period. Students may take home to finish if drawings are not finished at end of period.</p>
Evaluation	Students will be evaluated on their ability to follow oral directions and demonstrate symmetry through mirror imaging.