True or false?
Your reflection in a mirror isn't a reliable guide to the face your friends see. Do this experiment to find out how a mirror lies, and how you can make it tell the truth.

Materials
• 2 mirrors, each about 7cm x 9cm
• masking tape and scissors

1. Hold one of the mirrors in your left hand and look at yourself.
2. Lift your right hand to your face. Your reflected image will lift its left hand!
3. Now close your left eye.
Your reflection will close its right eye! The mirror is showing you back-to-front, or reversed, images. These images are not the ones others see when they look at you.
4. Put the shiny sides of the mirrors together
5. Tape the mirrors together along one of the longer sides.
6. Stand the mirrors upright.
7. Slowly move the mirrors together or apart until you can see one half of your face in each mirror.
8. Now lift your right hand or try closing your left eye. This is how your friends see you!

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