Explore!
1. Take a plate with a cookie and spread a thin film of frosting over the cookie (silicon wafer).
2. Place Mask# 1 over your cookie—line up arrows on plates. Sprinkle with photoresist #1.
3. Place Mask# 2 over your cookie—line up arrows on plates. Sprinkle with photoresist #2.
4. Place Mask# 3 over your cookie—line up arrows on plates. Sprinkle with photoresist #3.
An integrated circuit or chip is a set of electronic circuits made on a small plate (wafer) that is made of silicon (think sand).

Many steps are needed to create the layers of a chip. We use gases, light, and chemicals to make the layers.

To create the patterns of a chip a mask or stencil is used.

The mask is used to form the pattern on the chip.

Many steps are used to add and remove materials to create several layers on the wafer.