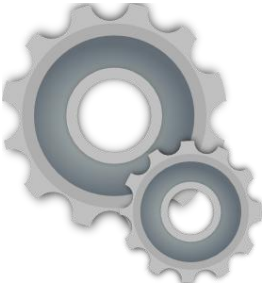


# Reverse Engineering



***What is Reverse Engineering?*** Engineering is the science of designing and creating. Reverse engineering is the science of taking things apart to see how they work. Have you ever wondered what makes devices work or what is inside them? Find a broken device/small appliance or one your parents don't want any more (toaster, cell phone, keyboard, mixer, etc.) and let's have some reverse engineering fun.

## Before taking the device apart...

What device is being taken apart? \_\_\_\_\_

Draw the device. Label the parts.

What does the device do when in operation? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

How are you going to take it apart? What tools do you need? \_\_\_\_\_

\_\_\_\_\_

What kind of parts do you think you will find inside? \_\_\_\_\_

\_\_\_\_\_

What do you think the inside parts look like and what do you think they do? \_\_\_\_\_

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## Take the device apart

Draw the inside of the device. Label any of the parts you know.



What inside parts connect with the outside parts? \_\_\_\_\_

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What do you think the parts do? \_\_\_\_\_

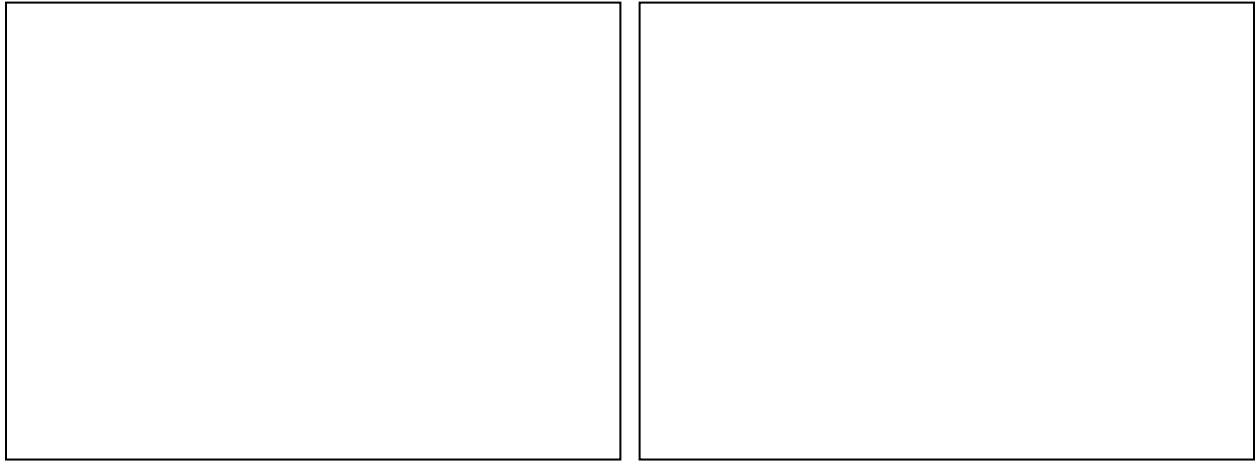
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Can you take the device apart further? \_\_\_\_\_

Draw two inside parts of the device.

Two empty rectangular boxes side-by-side, intended for drawing two inside parts of a device.

What do you think the parts do? \_\_\_\_\_

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Did any of the inside parts surprise you? \_\_\_\_\_

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## When taking apart more than one device....

What outside parts are similar? Do they have the same function in the different devices?

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What inside parts are similar? Do you think they have the same function in the different devices?

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