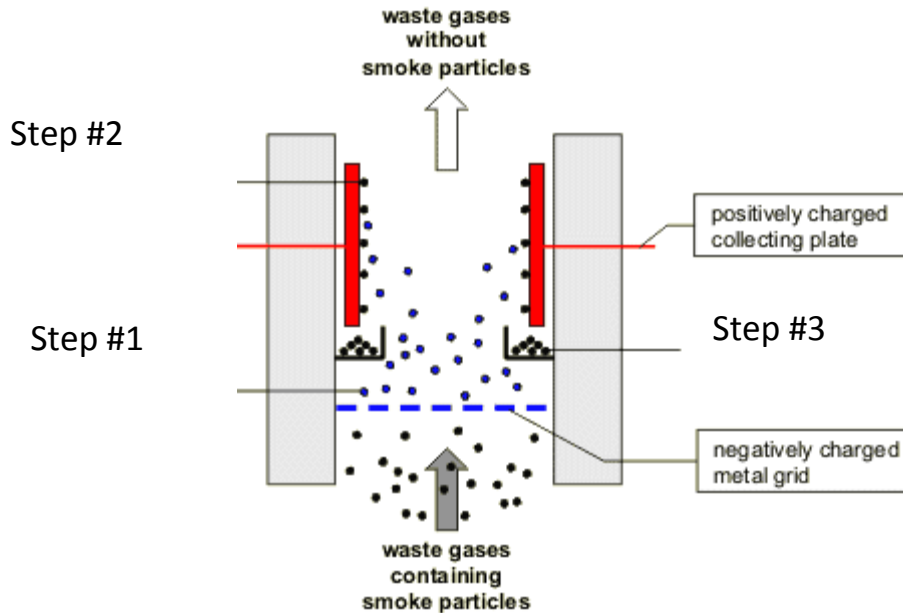


## More Uses of Static Electricity

Remember the 1<sup>st</sup> example? \_\_\_\_\_

2<sup>nd</sup> Example: Electrostatic Precipitator (Cleaning up smoke!)



We burn a lot of fossil fuels ( \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ )  
to generate electricity. Burning fossil fuels produces a lot of soot or \_\_\_\_\_.

Many industries produce waste gases with soot. This pollution is not good for our general health and makes it hard to breath especially for asthmatic people. The electrostatic precipitator cleans out the soot.

After we talk about it, write down in your words how the electrostatic precipitator works.

Step #1 \_\_\_\_\_

\_\_\_\_\_

Step #2 \_\_\_\_\_

\_\_\_\_\_

Step #3 \_\_\_\_\_

\_\_\_\_\_

Open Response Question:

You live in a town in which there are many industries that burn materials. The smoke stacks from these industries produce a lot of waste gas and soot. The electrostatic precipitators costs money. Industries like to make money. Do you think the industries should be forced to install electrostatic precipitators?

Checklist for best answer

- I answered the question with a full sentence
- I gave an example/fact to support my answer
- I explained how the example/fact relates to my answer

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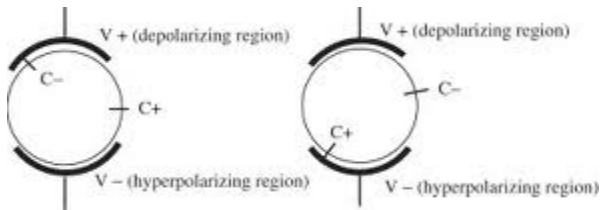
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3<sup>rd</sup> Example: Defibrillator (Paddles to get heart going again)



Nerves tell your heart to keep pumping. Nerves are \_\_\_\_\_ in nature. When you have a \_\_\_\_\_ and your heart stops pumping, a defibrillator can get it going again.



Paddle 1 charging

Paddle 2 charging

Step #1

Step #2



After we talk about it, write down in your words how the electrostatic precipitator works.

Step #1 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Step #2 \_\_\_\_\_

\_\_\_\_\_