

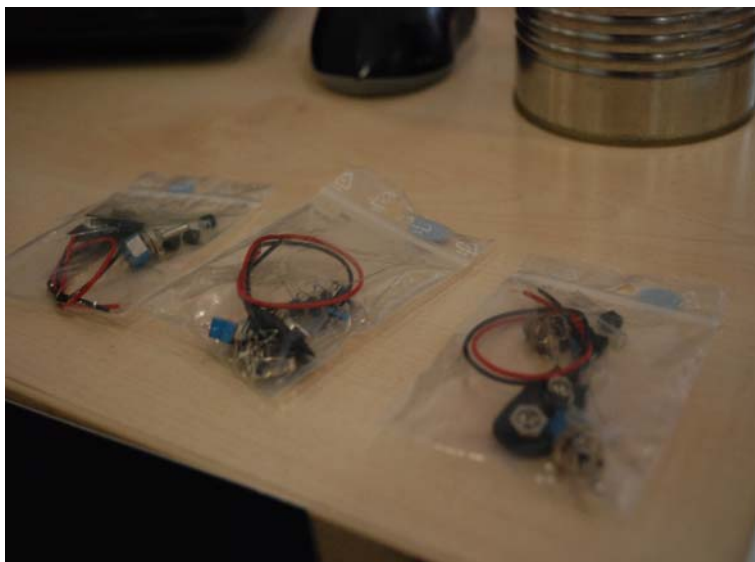
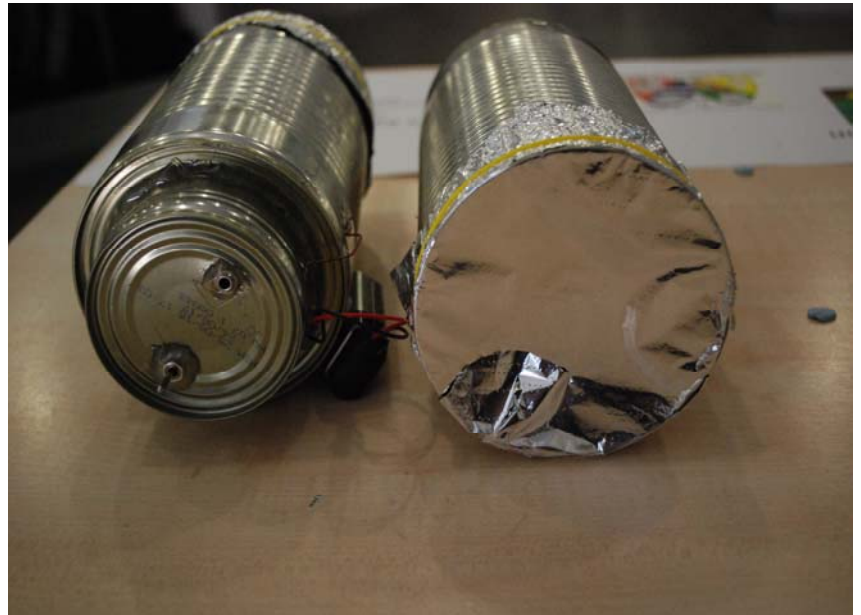
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Tin can Radon detector

Radon detection on a budget!

Radon is a radioactive gas which may be a threat to our health. It can be found everywhere, and comes from the cracks of our planet's soil.

This DIY radon detection kit lets you inspect the rising or falling level of the radioactive gas. The detector amplifies an unbelievably small ion current flowing through the air in the tin can when high energy particles fly into it. We use transistors to amplify the signal, and a multimeter measures a voltage drop between the pins of a resistor.



To help the DIY process, we made some kits, pre assembled amplifiers with the resistors. This action provides an easier approach if you want to build the detector. Also these kit elements are cheap and easy to get, even from scrap parts.(e.g.: old transistor radio) If you choose these kits, all you need to have, is two different sized tin cans, some aluminum foil, a multimeter, and a 9V battery. Everything else will be in the kit.

Our goal is to provide the students a cheap DIY way to get closer to understanding physics, to ask questions, also have great ideas, more and more curiosity about physics and nature.