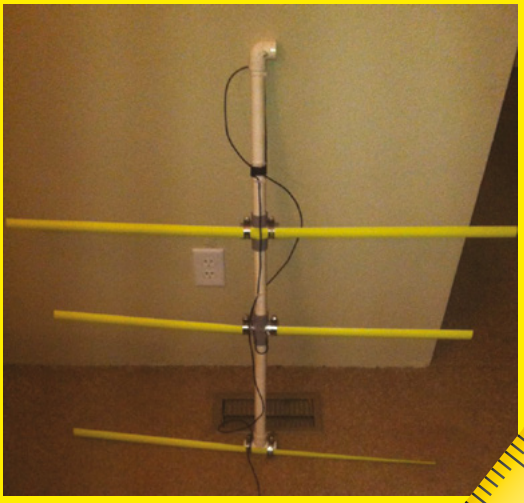
# TAPE-MEASURE ANTENNA

**To help his eight-year-old nephew get a technical class amateur radio license, Chris went looking for a project that was "easy, fast, and required few tools or skills".** He adapted the measuring tape antenna, designed by ham radio operator Joe Leggio (**hsmag.cc/QcfEZL**), to help his nephew understand the fundamentals of antennas and other associated topics.

On his Instructables page, Chris details the process of building the different booms and the frame of the antenna from PVC pipes. He then cut various lengths of a 1"wide measuring tape, and used them as the director, driven, and reflector elements. The end of the cut tapes are very sharp, so make sure you carefully sand them. Also sand off the ends of the bottom side of the tape that'll act as the driven elements for soldering wires. Use the hose clamps to secure the elements to the frame. Follow Chris's nicely explained and illustrated details to strip an RG58 cable, and solder its wires to the driven element. He also shares technical notes on fine-tuning the antenna, and the page has useful discussions with other people who have replicated his project.

**Project Maker**
**CHRIS ORMSBY**

**Project Link**
**hsmag.cc/mVBhdJ**



**Below**
The antenna is built with $20 worth of PVC pipes, hose clamps, measuring tape, and other materials