

Simple Moth Trap Instructions

SAFETY FIRST: The pesticide strips used to kill the collected moths contain chemicals that disperse in the air in very small amounts over time and are relatively odorless. Even though you may not be able to smell it, you must limit your skin-to-skin contact and inhalation of vapors in small, enclosed spaces. If possible, work with the pesticide strip outdoors or in well-ventilated areas.

Material List

Two 2-liter soda bottles

Preferably clear and straight sided and both bottles used should be of the same size

Cotton/hemp string or yarn

About 1.5 m (nylon or similar types of string will come unraveled or the knots don't hold tight – test your string to see how it works prior to student use).

Binder clips

Other clips, spring-type clothespins and pipe cleaner or twist ties can work too

Clear packing tape

Or other tape tested beforehand to ensure its adhesion to plastic

Mini UV LED keychain flashlight 395 nm

1 per trap standard

Heavy-duty single hole puncher

Small pointed scissors

Pesticide Strip

Hot Shot brand No-Pest Strip Removed from plastic container and cut into 1 x 1 cm inch pieces

Fiberglass window screen

Roll this several layers thick around pest strip squares and staple it closed

Thin marker

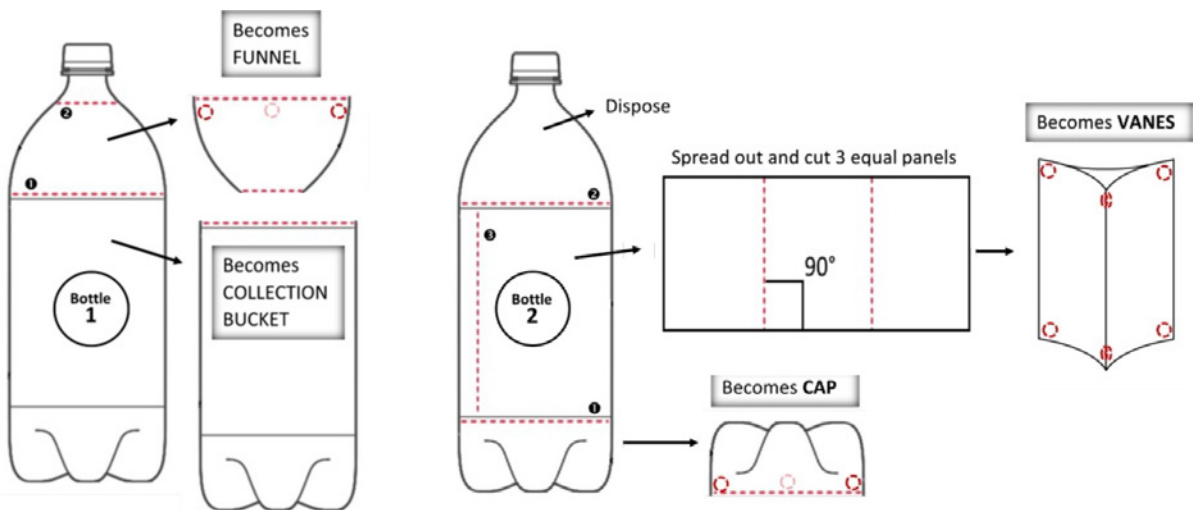
To draw lines for cuts on the bottles

PLACING THE MOTH TRAP: Once the trap has been assembled, use the string to attach the trap to a tree, building, or other structure several feet off the ground. Place a safety-protected (with screen) pesticide square in the COLLECTION BUCKET.

Turn on the light source as near to sunset as possible to provide the most battery life. Collect moths each morning and replace pesticide into air-tight containers for re-use. For more information and tips for placement of your moth traps, visit MothEducation.org

Preparing the components *Lines to be cut are indicated in red dashes on these diagrams.*

- 1 Make two cuts to Bottle 1 and punch 3 holes equally spaced around FUNNEL. Small funnel opening should be about 5 cm in diameter.
- 2 Make two cuts to Bottle 2 and then a third vertical cut to create a broad panel.
- 3 Spread out and make two cuts on the panel to create three equally sized panes.
- 4 Punch 3 holes equally spaced around CAP and four holes in the corners of each of the three panels.
- 5 Assemble panels as shown and use clear tape on edges to create the triple VANE assembly.



Assembling the trap

- 1 Tie three 45 cm strings to holes in the VANES.
- 2 Thread each string, from the inside-to-outside, through the holes in the CAP and tie in a knot at the far end.
- 3 Use twist ties or pipe cleaner to firmly attach bottom of VANES to the FUNNEL.
- 4 Attach LED light source to VANE using tape, making sure to allow access to the on/off switch
- 5 Complete assembly by seating FUNNEL down into the COLLECTION BUCKET and clipping together.

