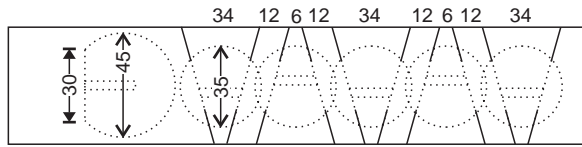
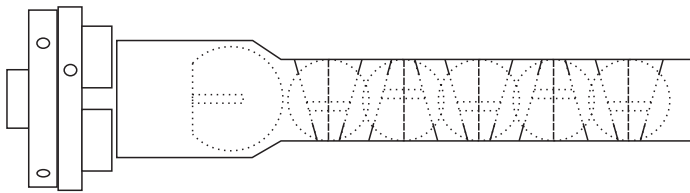


Wiggly Worm

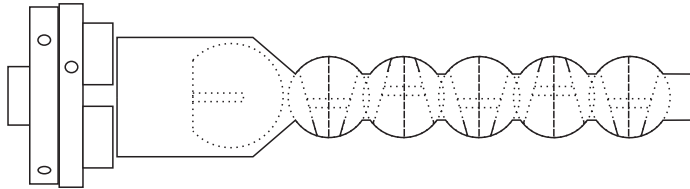
This toy consists of up to 10 body pieces with head and a tail pieces of identical shape. The angled sides of the body pieces and the joining bungy cord make it wiggle easily. Make two sets of items from the drawings that follow then paint one end with a face. Use contrasting wood colours or paint some parts. Assemble them with a length of thin bungy.



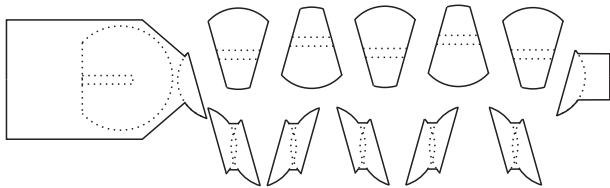
Start with two pieces of wood each 50mm square and 250 long. On the flat upper side mark the diagonal lines which are 15° from vertical. Then use a fine saw or bandsaw to cut along each line (shown solid dark on the plan) to 15mm in from each face.



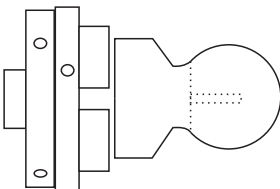
Mount the wood in a chuck. Turn the area that is to be five of the body parts down to 35mm diameter. Mark the centre of each spherical part.



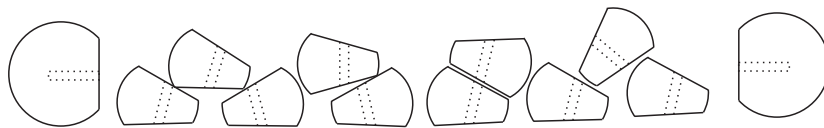
Turn the curve of each spherical part down until it meets the widest bandsaw cut on each sphere. Try to keep the diameter of the sphere at 35mm. Sand this cut surface.



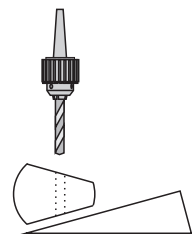
Remove the wood from the lathe and complete the bandsaw cuts started earlier when the wood was square. Sand the cut faces on the portions of the sphere and discard the tailstock end and pieces between.



Remount the remaining piece which is to be the head or tail of the worm. Turn it to a sphere and far enough down the headstock side for parting off to create a flat face that is 30mm wide. Sand the spherical surface and part it off.



You now have ten body segments and two larger pieces to be head or tail.



Drill each piece to take the bungy. The hole through the body pieces is not central to the wood block but is central to the flat cut face of the wood. The hole goes from the centre of one face to the centre of the other. Mark the exact centre of the cut face on one side of every body piece. Cut a block of waste wood to make a 15° slope. Put the body blocks on the slope and use a drill press. Drill a hole to take the bungy in the centre of the flat face of the head and tail. Fix the bungy into the head or tail. Thread the body pieces on. Stretch the bungy a little and fix it into the other head or tail.

