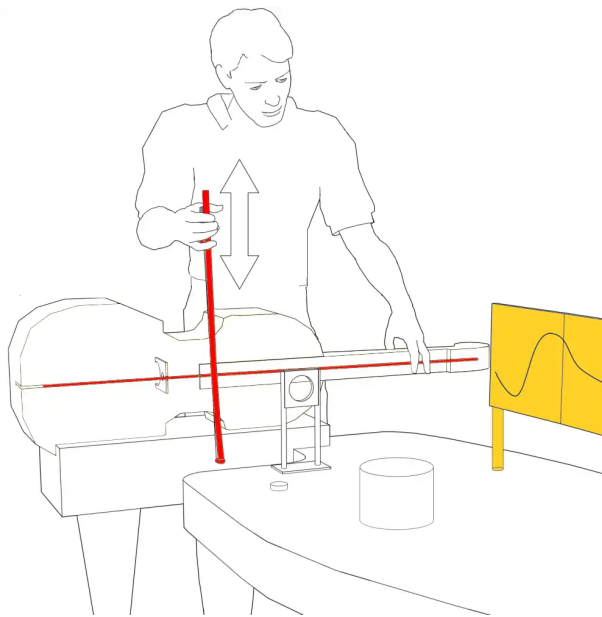


# Waves on a string

How is the sound of the cello generated?



Press the black button to turn the light on.

Pick up the bow and run it over the cello's string.

Try to pick the string with your fingers, too.

Look at the pattern that is projected on the screen.

The pattern on the screen is a graph of the motion of the vibrating string.

You can get a variety of sounds out of the cello. Some of these sounds make smooth waves, and others make waves with a saw-tooth shape. Different instruments produce different sounds because of the different shapes of wave that they make.