

# The Magical Music Machine: Exploring the Theremin!

## Materials You'll Need:

- Computer or tablet with internet access
- Speakers or headphones
- Paper
- Crayons or markers

## What is That Wobbly Sound?

Have you ever heard music that sounds like it's from outer space or a spooky movie? It might be a Theremin! The Theremin is a super special musical instrument because you play it **WITHOUT** touching it! It looks like a box with two antennas sticking out.

## How Does it Work? Magic?

It seems like magic, but it's actually science! The Theremin uses electricity to create invisible fields around its antennas. One antenna controls how high or low the sound is (pitch), and the other controls how loud or soft it is (volume). When you move your hands closer or farther away from the antennas, you change the sound!

## Meet a Theremin Superstar: Clara Rockmore

One of the most famous Theremin players ever was a woman named Clara Rockmore. She was amazing and could play beautiful classical music on this strange instrument. She showed everyone it wasn't just for spooky sounds!

## Let's Listen!

Time to hear this amazing instrument. Ask a grown-up to help you find videos of Theremin music online. Search for 'Clara Rockmore playing The Swan' or 'Theremin spooky music'. Listen carefully. Can you hear how the pitch goes up and down smoothly? Does it sound different from a piano or a guitar?

## Activity 1: Air Theremin!

Let's pretend to play the Theremin! Stand up. Imagine one antenna makes the sound higher as your hand gets closer, and lower as it moves away. Imagine the other antenna makes the sound louder as your hand gets closer, and quieter as you move away. Play some 'air theremin' along with the music you listened to. Make high sounds, low sounds, loud sounds, and soft sounds just by moving your hands in the air!

## Activity 2: Design Your Own Theremin!

Get your paper and crayons or markers. If you could invent your own Theremin, what would it look like? Would it have twisty antennas? Would it be shaped like an animal? Would it light up? Draw your

amazing Theremin invention!

## **Wrap Up**

Wow! You learned about the Theremin today! It's a unique instrument you play without touching, using invisible fields around its antennas. You heard its cool sound and even pretended to play it! Maybe one day you'll get to see or even play a real one!