DESIGN A DISTORTION PEDAL

Est. Time: 45 minutes
Subjects: Art, Music, Social Studies
Age Range: Middle & High School, but accessible to all
See the full lesson here!
In this lesson you will:

• Identify the sound of distorted guitar in a recording

• Understand how a distorted electronic signal sounds and looks in comparison to a non-distorted signal

• Learn about the inventors of the distortion pedal

• Design your own prototype of a distortion pedal
Watch this Nirvana performance and listen closely to the electric guitar. If you can, watch it with a friend on Zoom or video chat.
Think about or discuss with a friend:

• How might you describe the sound of the guitar?

• What do you think the guitar sound contributes to the song?

• How might the guitar sound have been created?
Now watch this video about “Fuzztone” and consider your answers to the questions on the previous slide.
Think about or discuss with a friend:

- How do you turn the pedal on and off to get the distortion effect?
- Did you hear similarities between the words you chose to “describe the sound of the guitar” and those used in the video? What were they?
- Did you choose different words or hear different words in the video? What were they?
The first distortion pedal was called the “Fuzz-Tone.” It was invented by Glen Snoddy and Revis Hobbs in the early 1960s.
Open the Fuzz Tone Tech Tool and play around with the buttons and slider.

What do you hear when you toggle between the sounds?

What do you notice visually when you toggle between the sounds?

Based on the visualization, how might distortion be achieved?

Why do you think a guitarist might want to use the effect?
SUMMARY

• The first distortion pedal was invented by Glen Snoddy and Revis Hobbs in the early 1960s

• Distortion can be used to boost the volume of the guitar in a song or to give the guitar sound a different mood

• Though few pedals were available in the 1960s, guitarists can choose from hundreds of effects today
Search “Guitar Pedal Set Up” to see what guitarists might use today.
BE CREATIVE

Now, create and draw your own pedal. It can be:

• A distortion, reverb, or any effect you’d like

• A pedal for your voice - What might you create?

• A superpower pedal - If you could click a button to give yourself a superpower, what would it be?
Take a picture of your pedal and:

• Share it with your classmates

• Share it with us! Either you or an adult in your life can share your work with TeachRock on Instagram or Facebook, email to info@teachrock.org, or Tweet it to @TeachRock
Visit us at teachrock.org for hundreds of other free arts-rich resources for every age range and classroom.

Please check back to teachrock.org/distancelearning frequently as we will update the material daily!