

DESIGN AN ELECTRIC GUITAR WITH SHAPES



Est. Time: 45-60 minutes

Subjects: Math

Age Range: Early Elementary

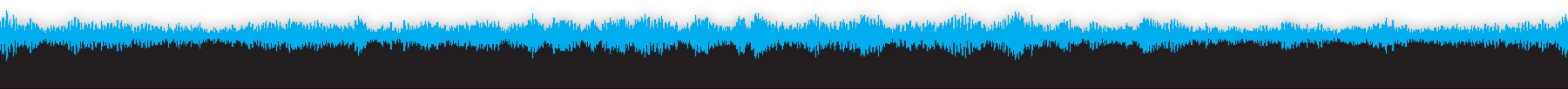
See the full lesson [here!](#)

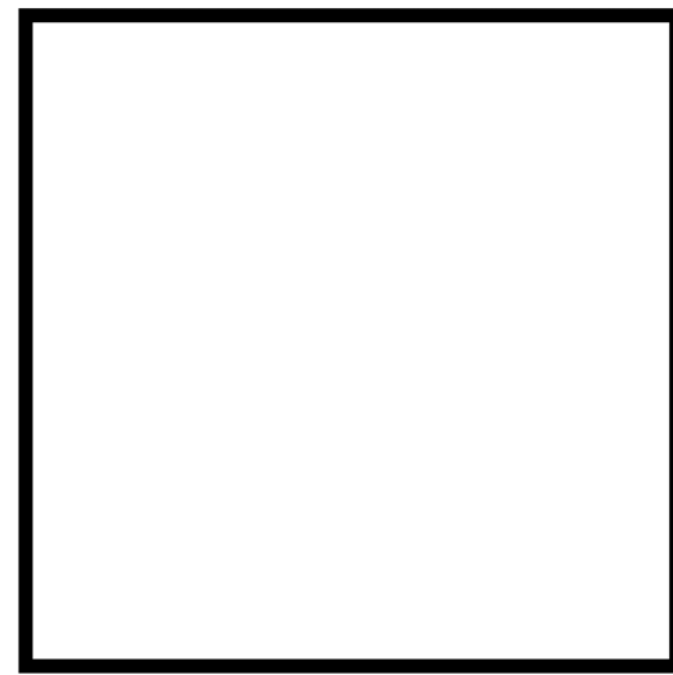
★ *TEACHROCK* ★



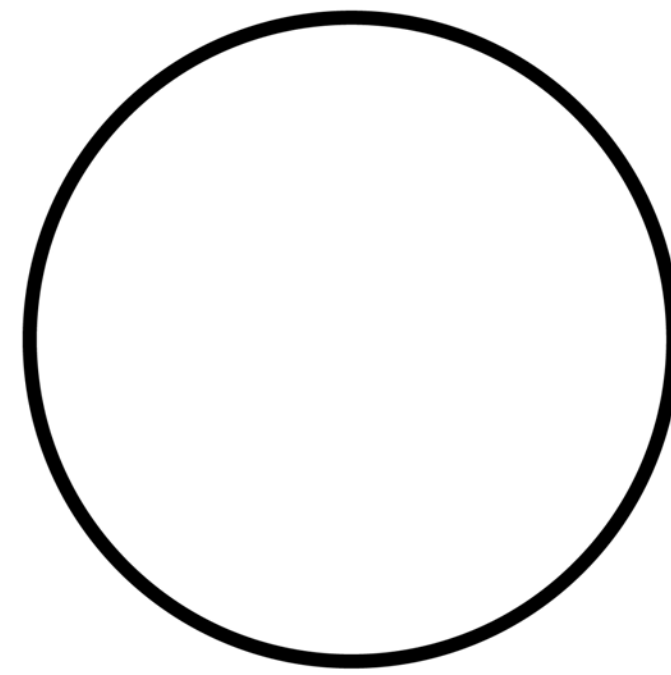
How can shapes be used to design an electric guitar?

In this lesson you will:

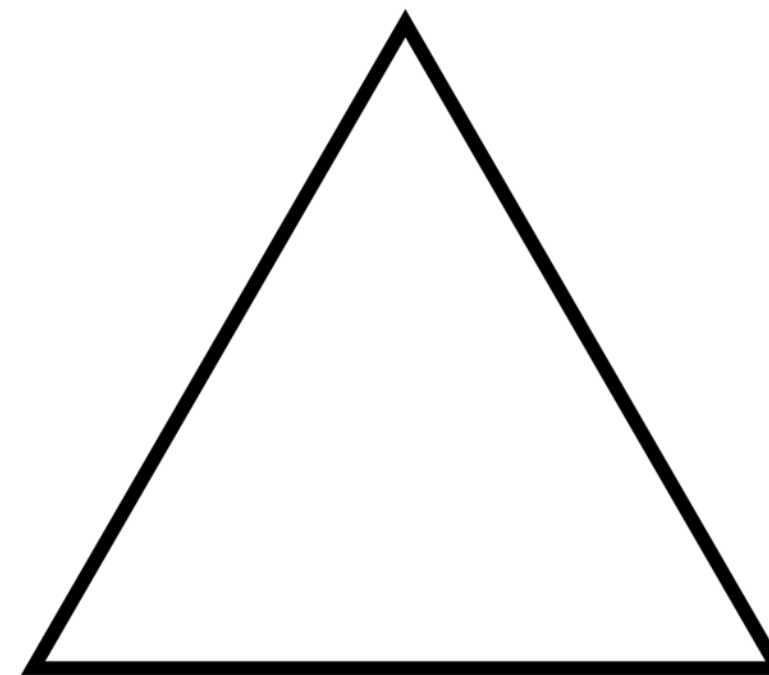
- Learn how to identify a shape based upon its characteristics (sides, points, and square corners)
 - Explore the construction and components of an electric guitar
 - Design your own electric guitar
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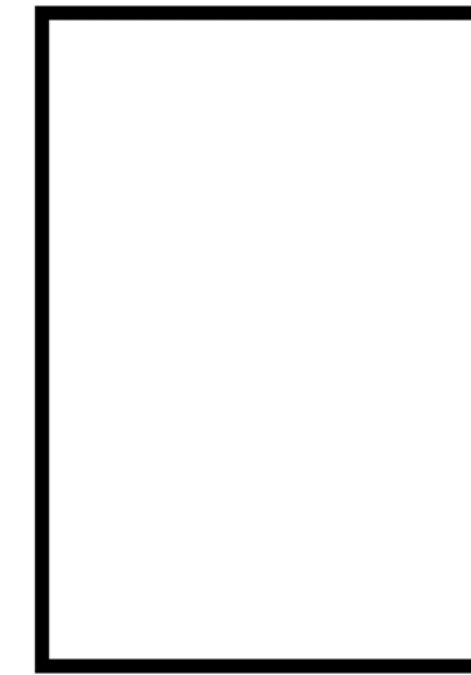
Square



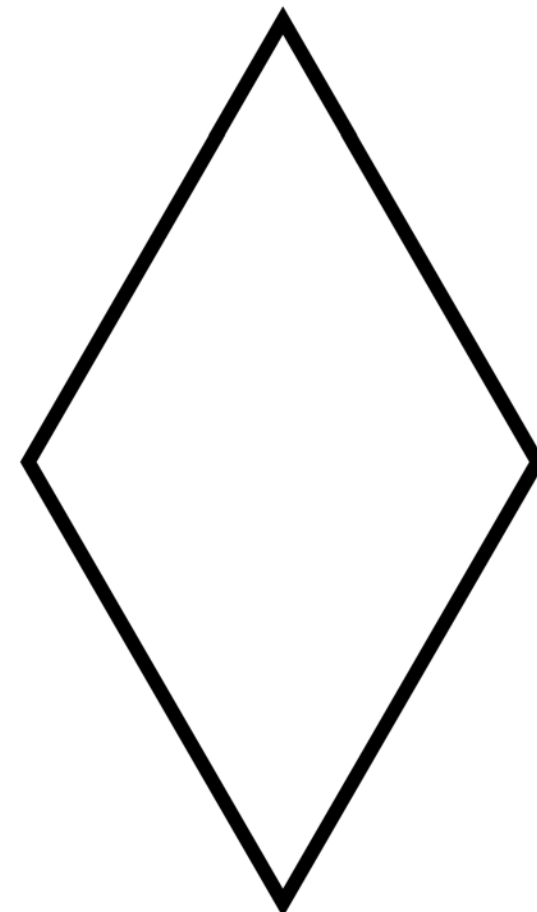
Circle



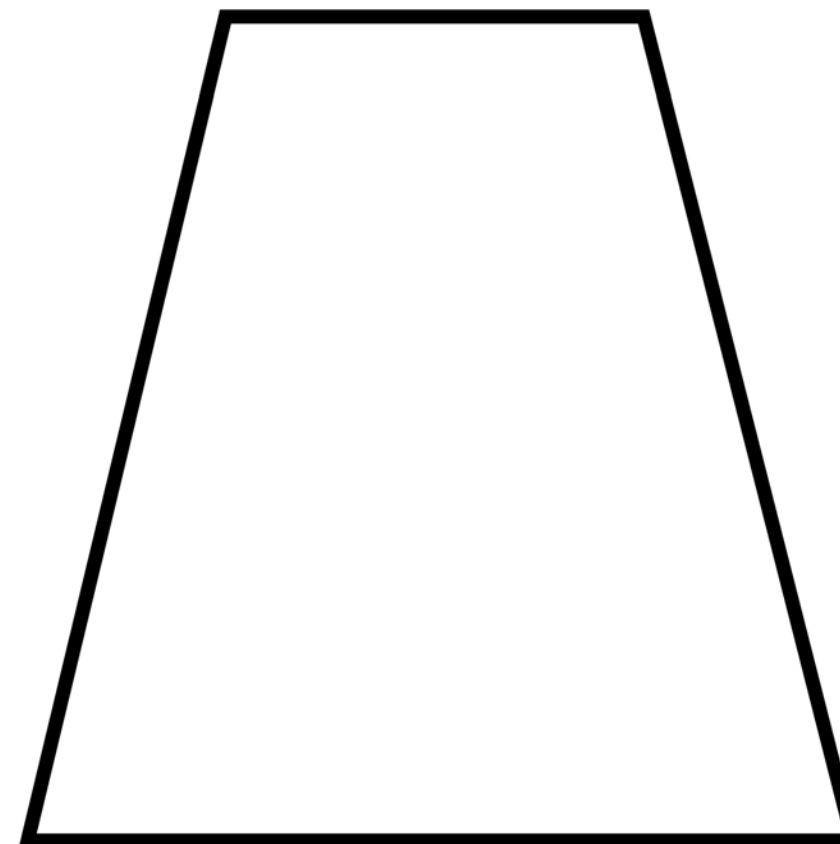
Triangle



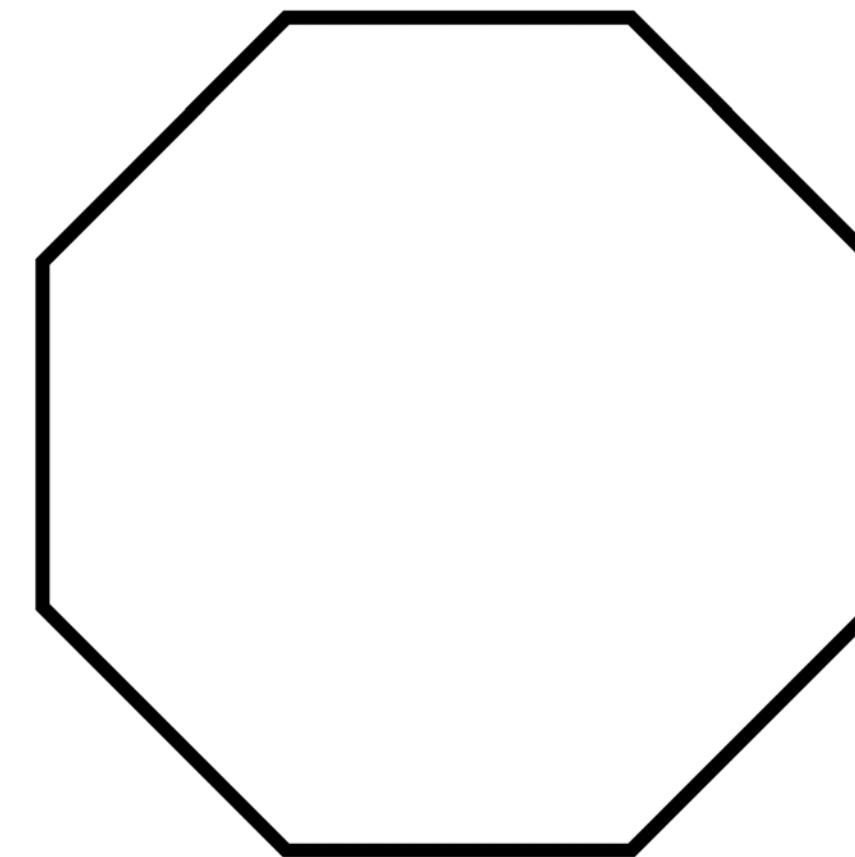
Rectangle



Rhombus



Trapezoid



Octagon

IDENTIFYING SHAPES

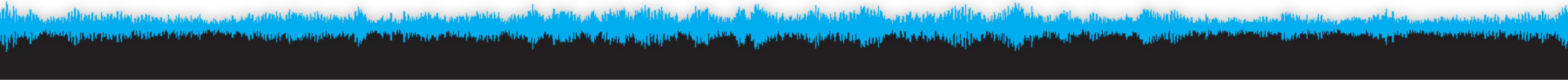
Look at the shapes in the picture above. What makes them different? Count how many sides, points, and square corners each shape has.



Print **this handout**.

Color each shape on page 1 its own color.


On page 2, find shapes in the guitar bodies and color them the colors you assigned shapes on page 1. If you colored the triangle green on page 1, color all the triangles you see in the guitar shapes green as well.

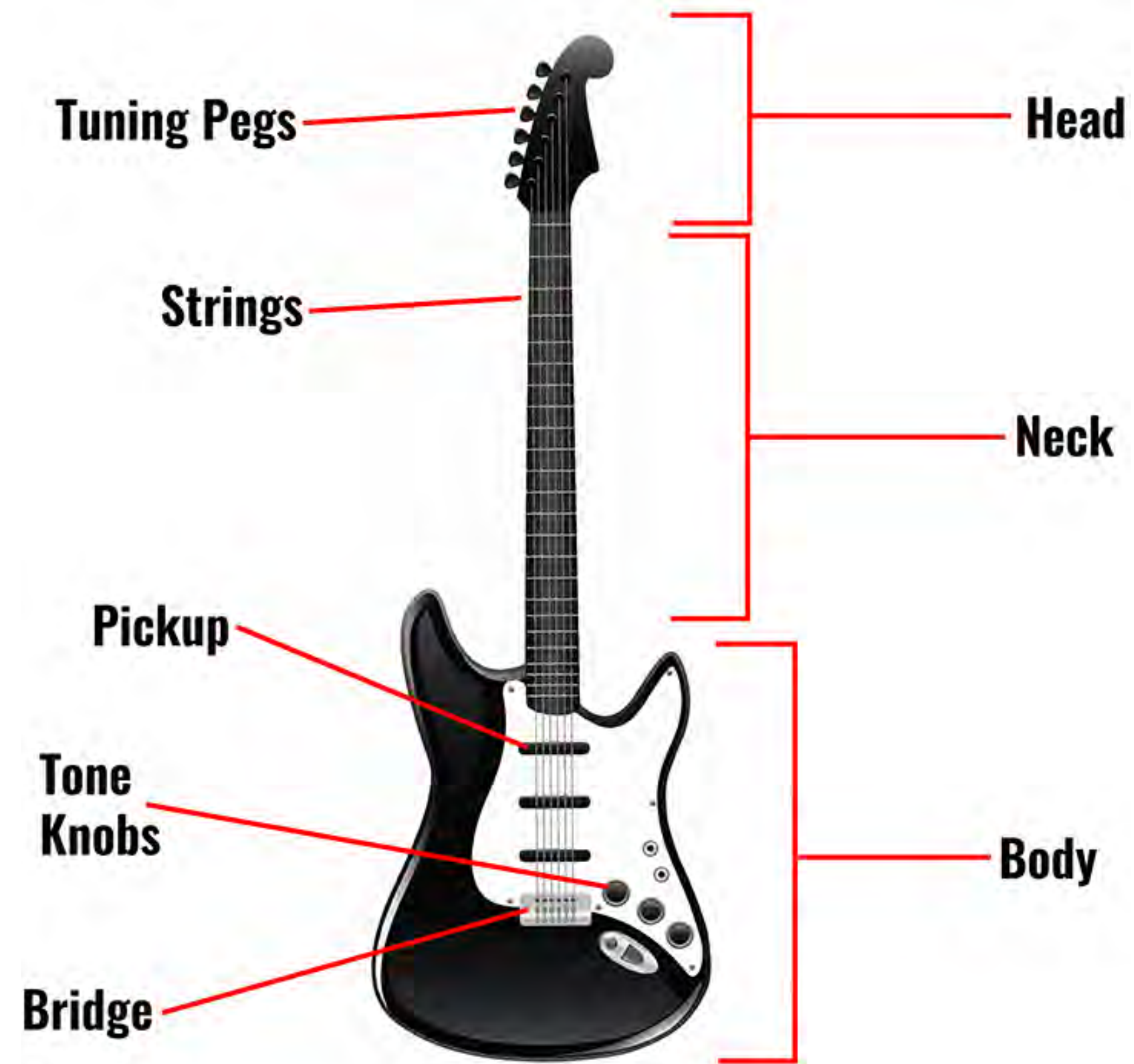




After you finish coloring the guitars, count how many shapes you discovered in the guitar bodies.

Think about:

- Which guitar had the most circles?
 - Which guitar had the most rectangles?
 - Which guitar had the most triangles?
 - Were there any shapes that were present in all the guitars?
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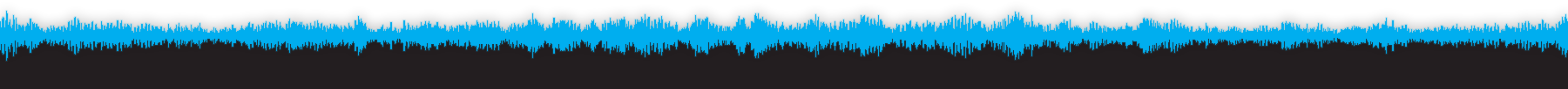


GUITAR COMPONENTS

Examine this image that lists the components of the guitar.



Think about or discuss with a friend:

- What are the main sections of the guitar? Why do you think they are called what they are?
 - What might the strings do on a guitar?
 - What might be the purpose of the tuning pegs?
 - What might the pickup do on an electric guitar?
 - What might the tone knobs do on the guitar?
 - What might the bridge do on an electric guitar?
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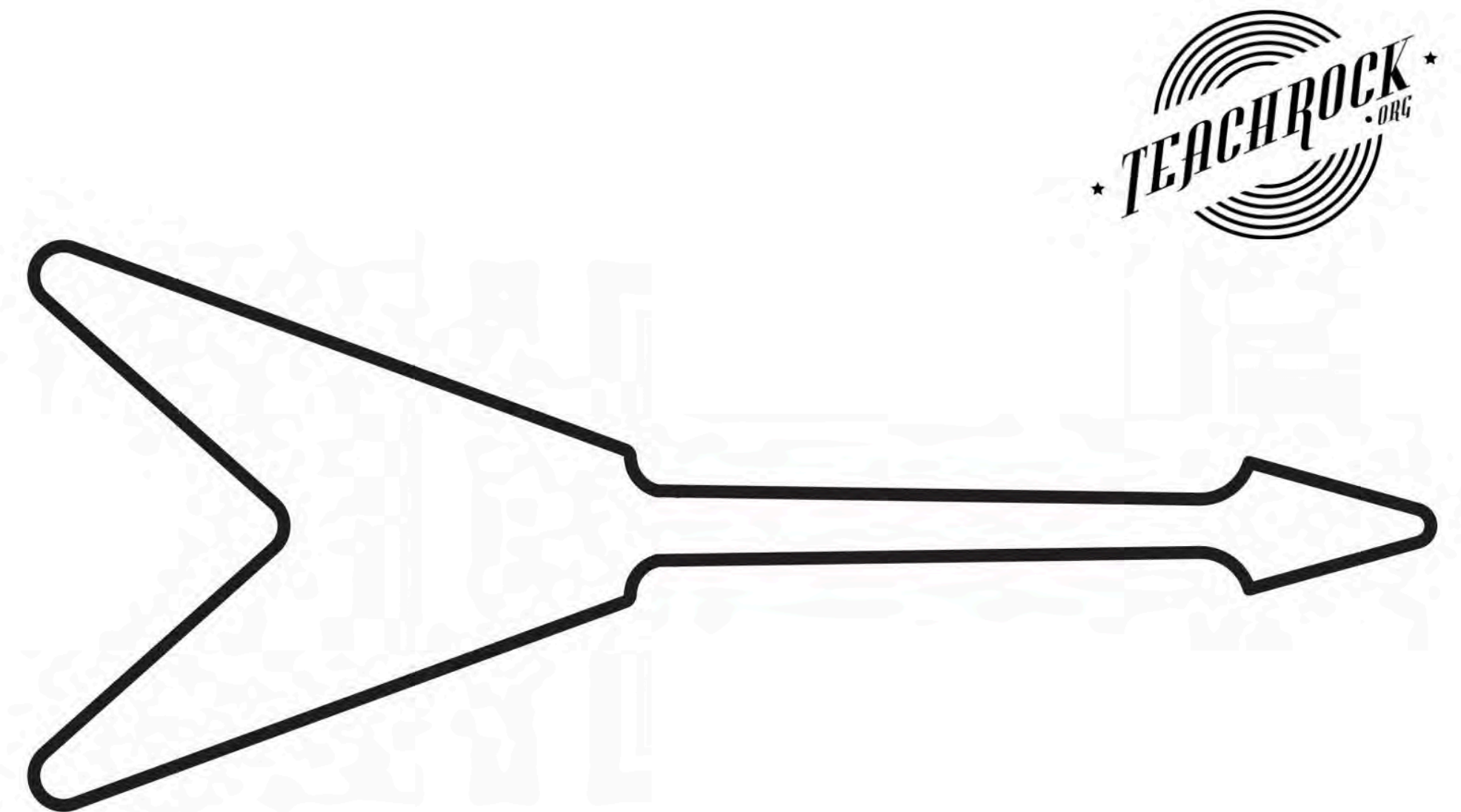
SUMMARY

- Shapes can be identified by the number of sides, points, and presence of square corners
- Guitars, like many objects, contain many shapes
- Guitars are made of a head, neck, and body, and consist of strings, tuning pegs, a pickup, tone knobs, and a bridge



BE CREATIVE

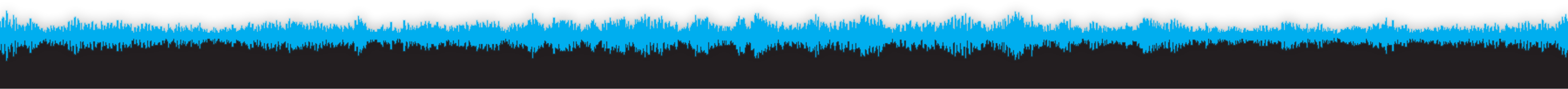
Print **this handout** and design your own guitar! Be sure to include all the guitar components you learned about in your design.



CONNECT

Take a picture of your guitar design and:

- Share it with your classmates
- Have your teacher or an adult share it with TeachRock on **Instagram** or **Facebook**, email to **info@teachrock.org**, or Tweet it to **@TeachRock**





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