# **The Guitar: Deconstruct and Design**

# 1. Question & Research Task

Guitar-like instruments have existed for centuries. Historians have identified images resembling guitars in carvings dating back more than 3000 years, but the origins of the modern guitar began taking shape in medieval Spain.

Despite its long history, the guitar's golden age didn't begin until the 20<sup>th</sup> century. Throughout the 20<sup>th</sup> century and continuing today, the guitar has found a role in many musical genres. The guitar's popularity and versatility is largely made possible by its dynamic design capabilities. Changing components and/or its blueprint can produce a range of sounds.

As you prepare to research, think about your musical taste: What's your favorite musical genre? How do artists typically use guitars in this genre? What kind of guitar sounds do you enjoy?

For this Slam Dunk, you will be learning more about how the guitar's design influences its sound so that you can design a signature guitar.

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Image Source: Discovery Education

In this Slam Dunk, you will conduct brief, focused research to respond to the inquiry question:

How do a guitar's components and anatomy influence its sound?

## 2. Information Sources

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**SLIDE NAVIGATION** 

## Choose several of the information sources linked here to complete the Student Activity on Slide 3.

### Strings and frets

Guitar String types
Acoustic Styles
Guitar Strings

### **Cutaways**

Cutaway vs non-cutaway
Cutaway: advantages and
disadvantages
Cutaway or non-cutaway

#### **Tonewood**

Tonewood sounds
Tonewood and New Materials
Eco-friendly woods

### **Body style**

Body Types
PRS Construction
Comparing guitar body types
Body styles defined

### **Pickups**

Science of Sound
Guitar pickups explained
Types of pickups

### **Body Shape**

Electric guitar body types
Electric guitar types

### **Acoustic-Electric**

Acoustic-electric: how they work
Pros/Cons of acoustic-electric

### Design/accessories

Design examples
Guitar inlays
Custom inlays
Multi-neck guitars
Guitar headstock
Types of headstocks

### **Amplifier**

Amplifier terminology
Amplifier buying guide

### **Pedal**

Guitar pedal basics
Essential pedals
Guitar pedal essentials
Guitar accessories for
beginners

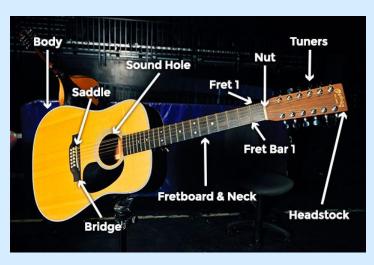


Image source: Discovery Education

<sup>\*</sup>If you are prompted to log in to access a database or digital content links, your teacher/librarian can provide login information.

# 3. Student Activity

Use the information sources on <u>Slide 2</u> to identify the parts of the guitar and how the parts impact the sound of the instrument.

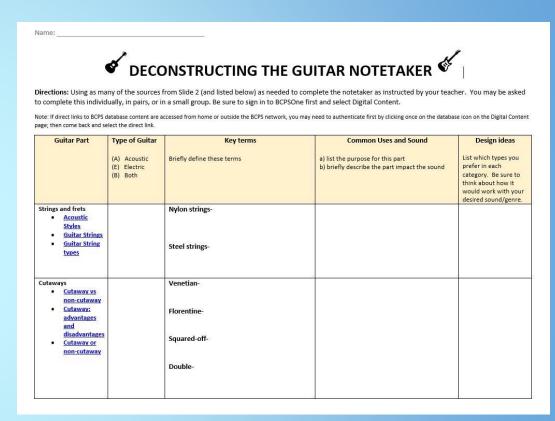
For each guitar component OR component(s) assigned by your teacher, you will use as many linked resources\* as needed to complete the graphic organizer.

When taking notes, be sure to

- Identify the type(s) of guitar that use this component
- Define the key terms
- Describe common uses and impact on sound
- Record notes on what type of each component appeal to your musical interest

\*If you are prompted to log in to access a database or digital content links, your teacher/librarian can provide login information.

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Click on the image above to access the graphic organizer.

### **Notetaking Tips**

Since some sources are longer, consider **skim and scan techniques** to help you find the information you need faster. "Find" is a useful tool when looking for key terms. Just select **ctrl + f** on your keyboard and type in the term to search the page to quickly find mentions on the page.

# 4. Assessment Activity

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# How do a guitar's components and anatomy influence its sound?

Many musical artists have created their own special, customized "signature" guitars that they take on tour year after year.

Your job is to design your own signature guitar and to be able to provide reasons for your choices. Be sure to include the guitar type, body style, choice of wood, guitar shape or cutaway, string types or pickup style, and color scheme/pattern/paint job.

- 1. PLAN: Read the prompt above carefully and become familiar with the Success Criteria.
- 2. **BRAINSTORM:** Use your design ideas notes and/ or this <u>planning sheet</u> to begin thinking about your signature guitar choices.
- 3. **CREATE!** Using <u>Google Drawings</u> (can be accessed using <a href="https://docs.google.com/drawings/">https://docs.google.com/drawings/</a>), or paper, template, or other teacher recommended tool, design your signature guitar including the elements identified in your notetaker.
- **4. REFLECT:** In a short essay, brief video recording format selected by your teacher, reflect on your choices by responding to at least two of the following questions: What considerations went into designing your "signature" guitar? Why did you decide on your chosen features? How does your guitar design reflect your own personal taste in music?
- **5. EVALUATE:** Check your work against the <u>Success Criteria</u>.

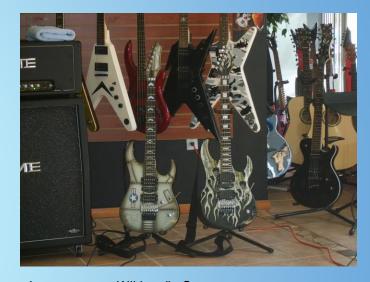
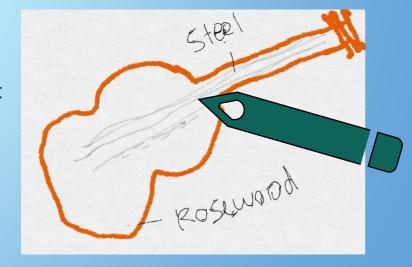


Image source: Wikimedia Commons



# 5. Enrichment Activities

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Click on the image above to see a Discovery Education video on building a guitar

Image Source: Discovery Education

Now that you have the blueprint of your design, it's time to take the next steps towards creating your masterpiece.

### **WATCH**

In this <u>video</u> Queen's guitarist Brian May describes building his famous "Red Special Guitar."

### **THINK ABOUT**

What unique feature would you add to your signature guitar?

### **LEARN**

Watch this <u>video</u> on how to build a guitar. You may also want to check out <u>How To Build An Amazing Guitar With Scrap</u>
<u>Wood</u> or <u>How to Build an Electric Guitar From Scratch</u>.

### **DRAFT**

Using your blueprint and what you've learned about building a guitar, make a list of the parts you will need to build your custom guitar.

## 6. Teacher Resources

### **Learning Standards Alignment**

#### **Content Learning Standards**

MU:Cn10.0.H.8a Demonstrate how interests, knowledge and skills relate to personal choices and intent when creating, performing, and responding to music.

MU:Re7.2.H.8a Describe how the way that the elements of music are manipulated, and knowledge of the context (social and cultural) influence the response.

#### Common Core State Standards for English Language Arts & Literacy

**Reading: 1.** Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.

**Writing: 7.** Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.

AASL Standards Framework for Learners - Inquire: Build new knowledge by inquiring, thinking critically, identifying problems, and developing strategies for solving problems.

Think: Learners display curiosity and initiative by: I.A.2 Recalling prior and background knowledge as context for new meaning.

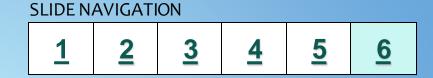
Create: Learners engage with new knowledge by following a process that includes: I.B.1Using evidence to investigate questions. I.B.3 Generating products that illustrate learning.

Share: Learners adapt, communicate, and exchange learning products with others in a cycle that includes: I.C.1 Interacting with content presented by others.

Grow: Learners participate in an ongoing inquiry-based process by I.D.2 Engaging in sustained inquiry.

#### **ISTE Standards for Students:**

3. Knowledge Constructor – 3d. Students build knowledge by actively exploring real-world issues and problems, developing ideas and theories and pursuing answers and solutions.



### **Grade 8 Content Area: Music/Guitar**

**Objective:** 

**Time Frame:** 2-3 class periods of 50 minutes each

#### Notes to the teacher:

- Collaborate with your school library media specialist to plan and implement this lesson.
- Provide students with login information as needed to authenticate BCPS Digital Content. Login information is on the BCPS Digital Content page in the Apps Portal.
- Consider using the <u>Schoology Assignment App</u> feature to assign Google Docs for students to access, edit, and submit through Schoology The note-taker may be assigned individually, pairs, or small groups. Notes could be shared in a jigsaw, poster presentation, etc.
- Flipgrid, VoiceThread, or Schoology Assessments can be used for the assessment recording. Access recording app in the Apps Portal.