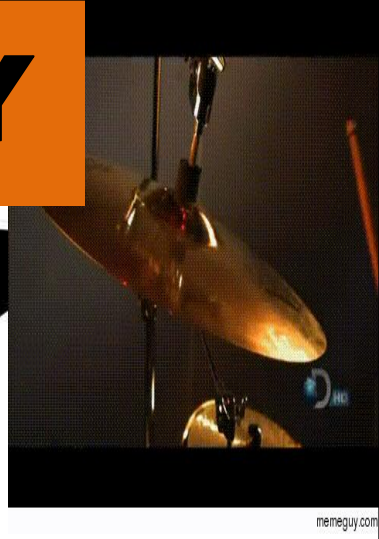
# SOUND ENERGY

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# String instruments


**These are instruments that produce sound by plucking  or bowing the string**

# Examples of string musical instruments

- Guitar
- Bow harp
- Lyre
- Violin
- Tube fiddle
- Viola
- Cello
- Banjo
- Ukelele
- Double bass
- Sitar

# A sitar

# A sitar

# A sitar

**A sitar produces sound by vibration of the strings when plucked**

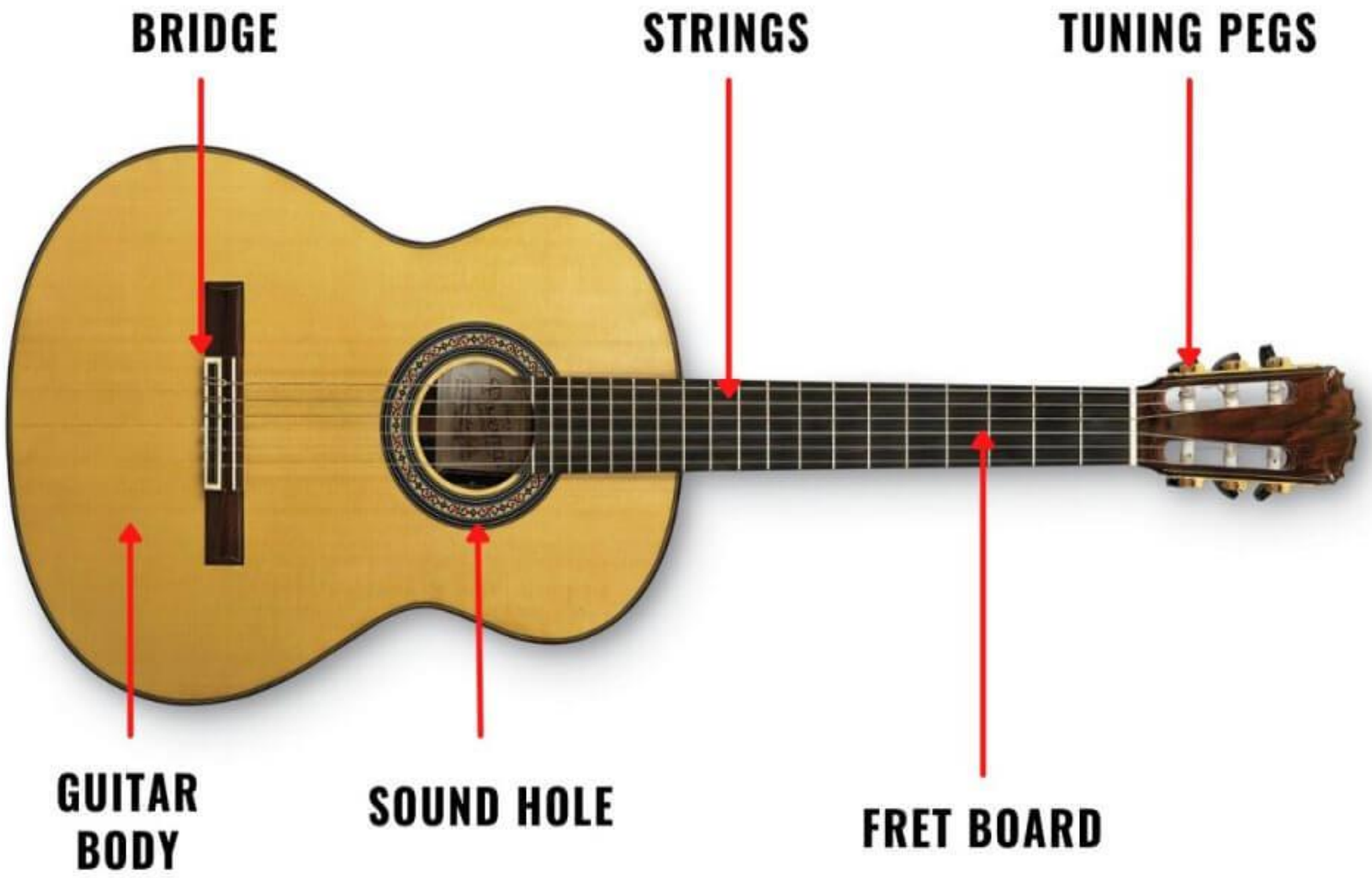
# Ukelele

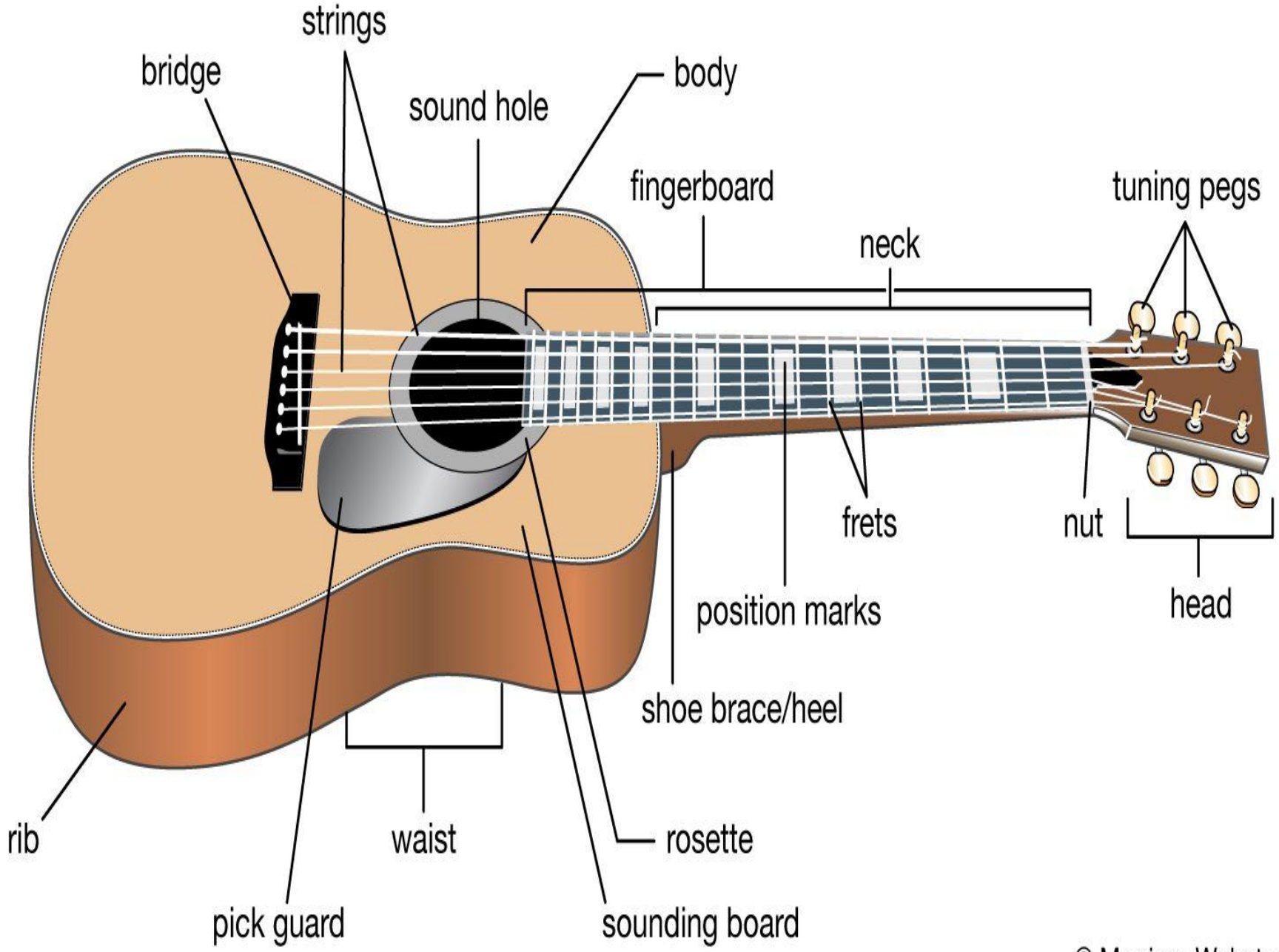
# Ukelele

**A ukelele produces sound by vibration of the strings when plucked**

# Guitar

**A guitar produces sound by vibration of the strings when plucked**

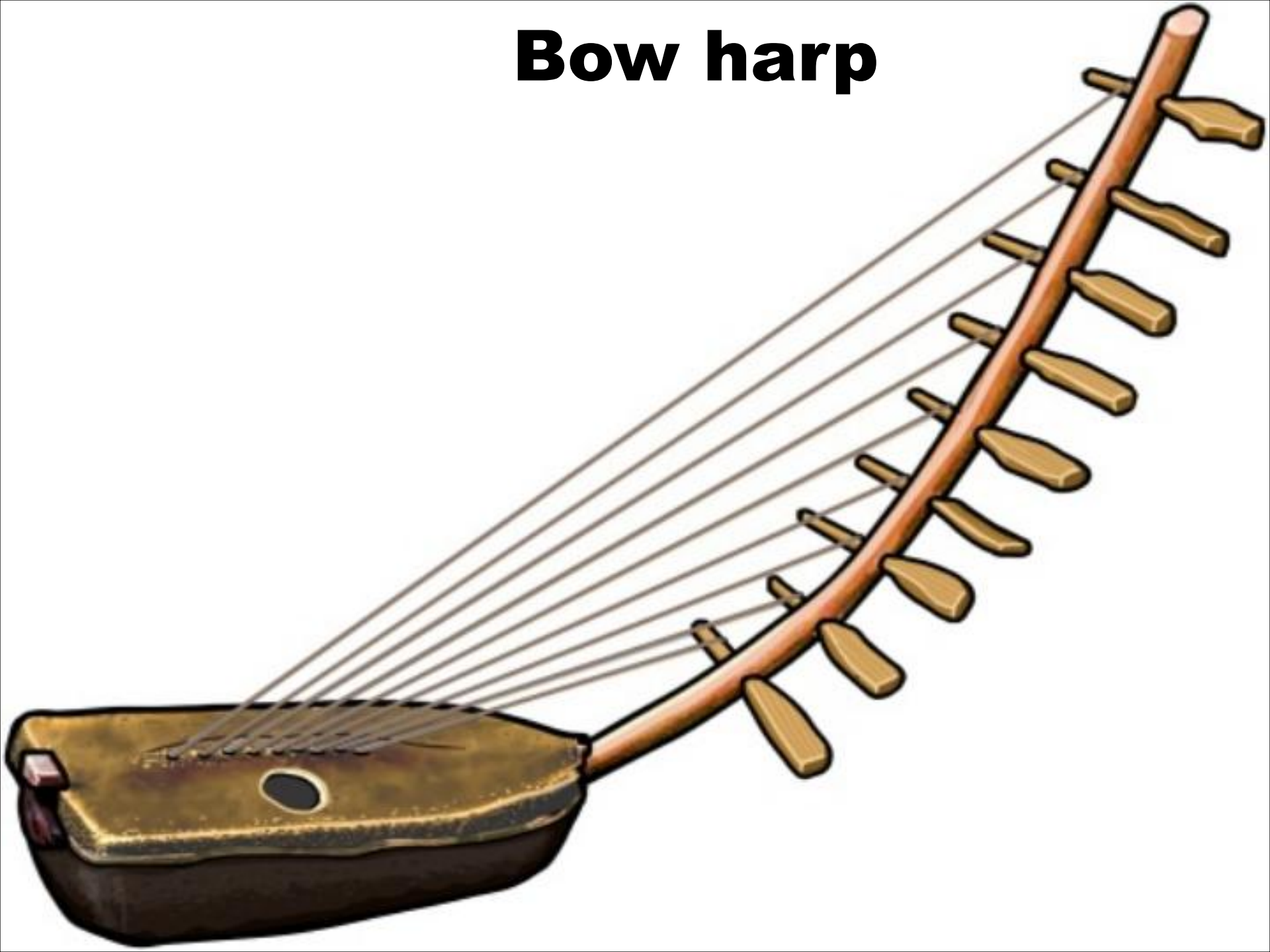

BRIDGE
STRINGS
TUNING PEGS
GUITAR BODY
SOUND HOLE
FRET BOARD



# Guitar vs. Ukulele

# Bow harp

# Bow harp



# Bow harp

**A bow harp produces sound by vibration of the strings when plucked**

# A lyre

# A man playing a lyre

A lyre produces sound by vibration of the strings when plucked

# Banjo

# Banjo

# Banjo

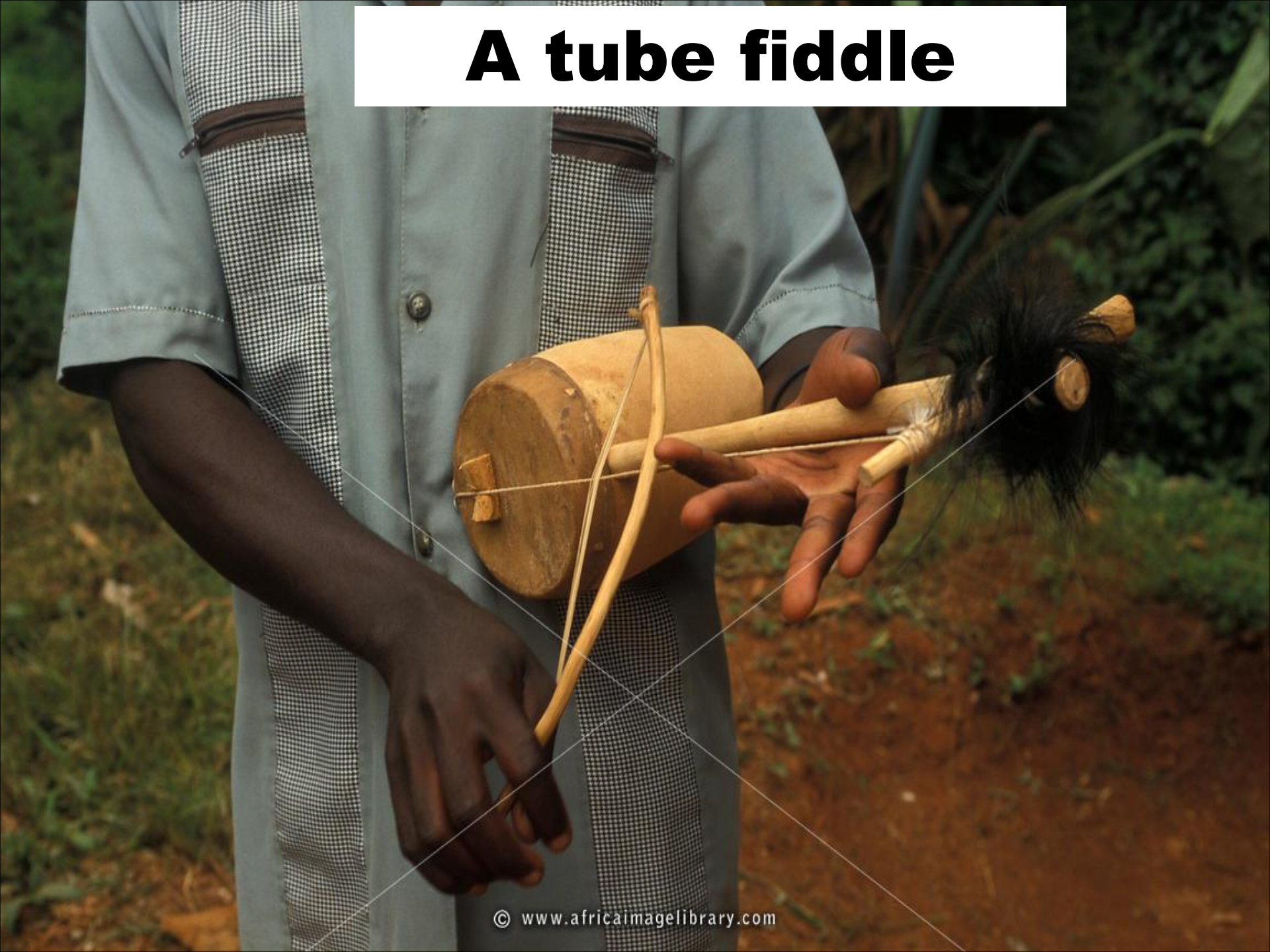
**A banjo produces sound by vibration of the strings when plucked**

# A tube fiddle

# A tube fiddle

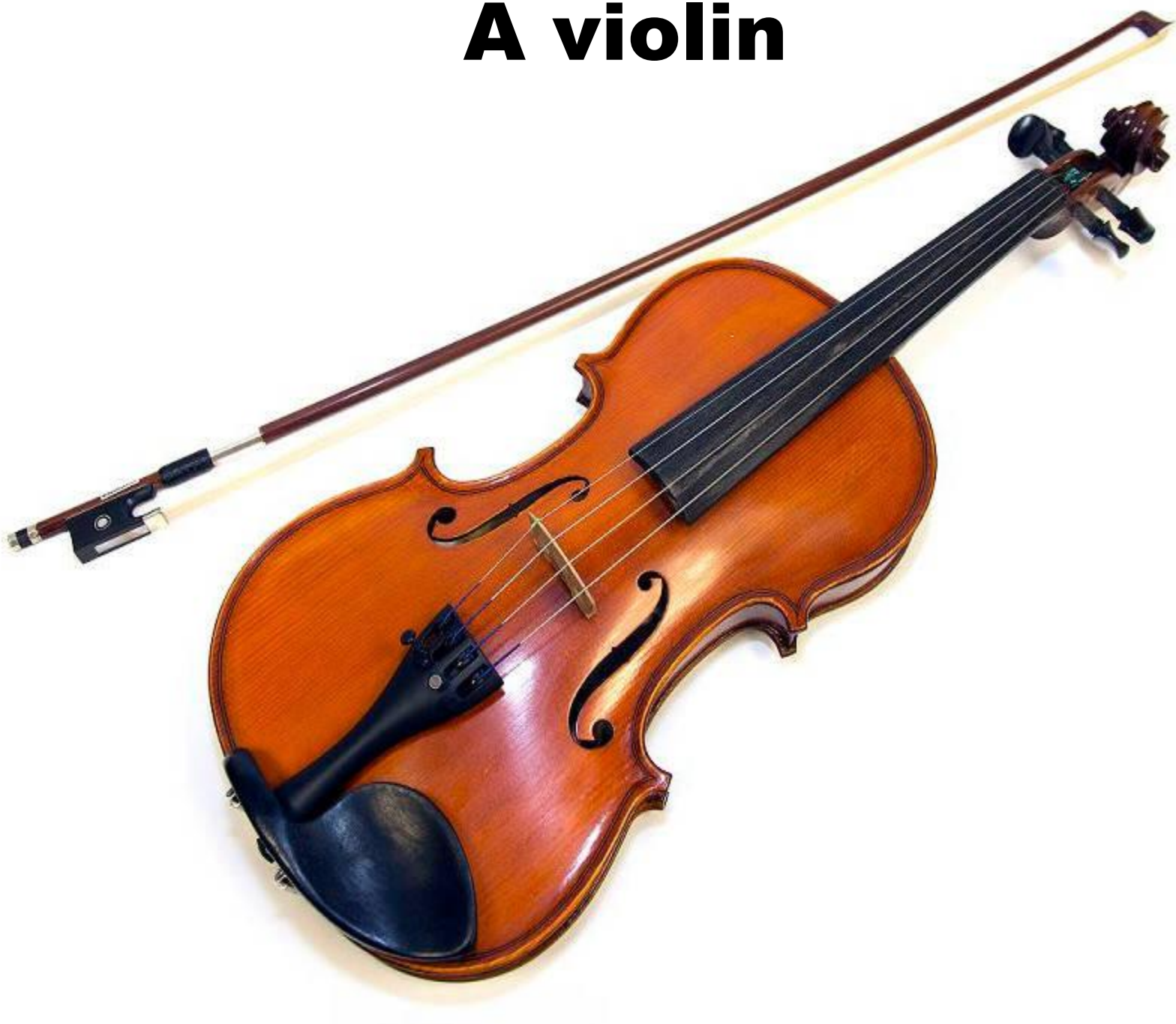
A tube fiddle produces sound by vibration of the string when bowed

# A tube fiddle



# A violin

# A violin

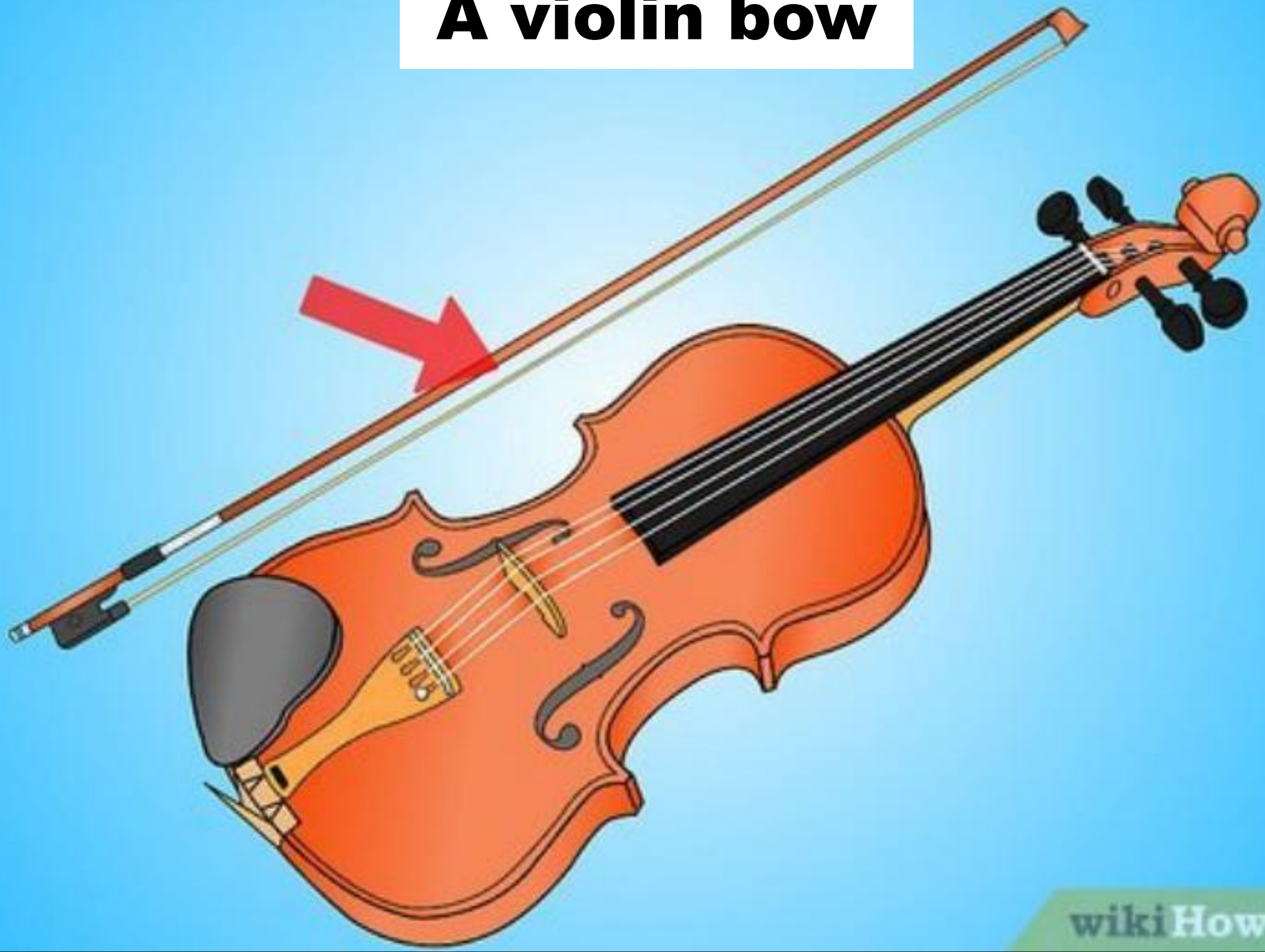


# A violin

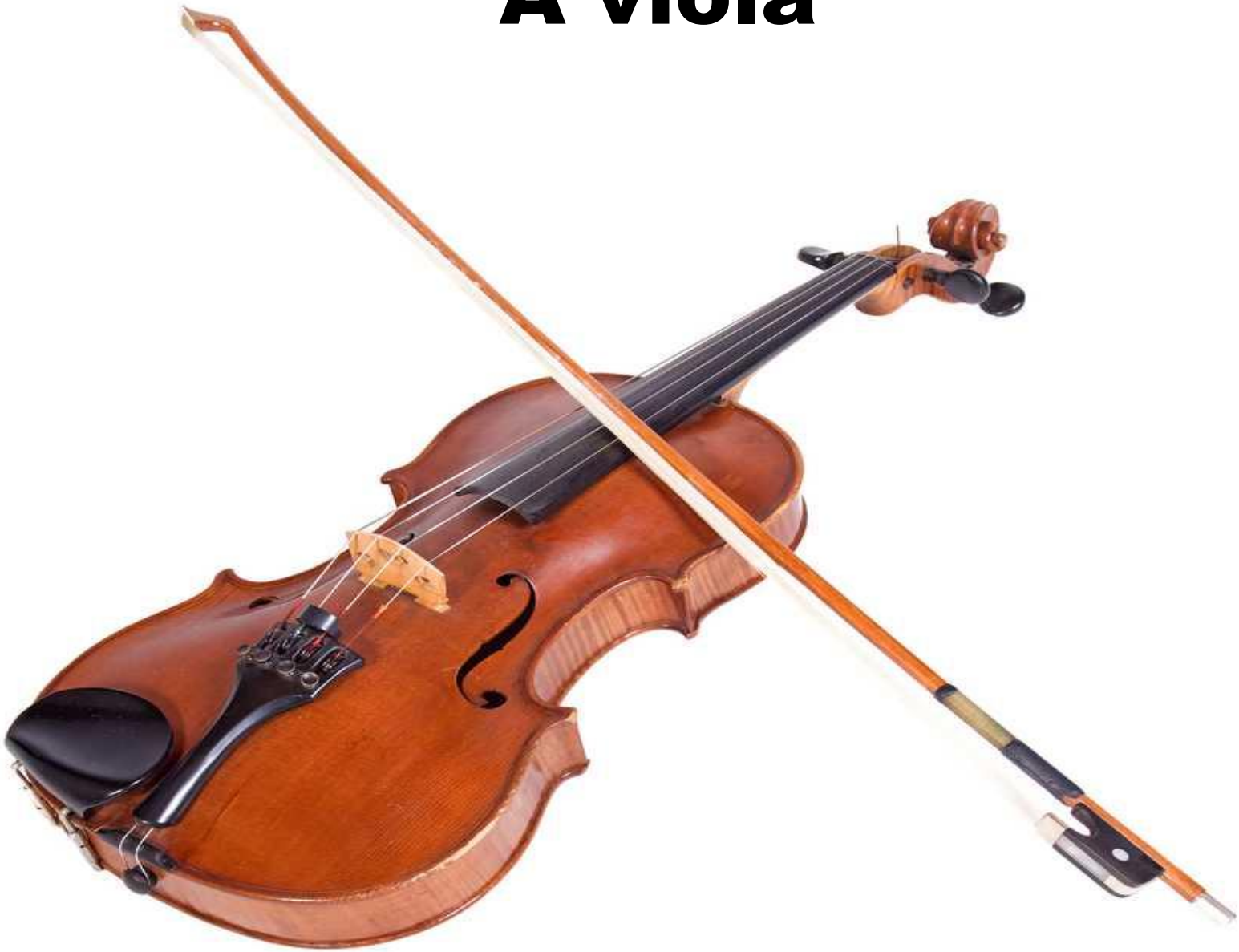
# A violin

**A violin produces sound by vibration of the strings when bowed**

# A violin bow



# A viola



# A viola

**A viola produces sound by vibration of the strings when bowed**

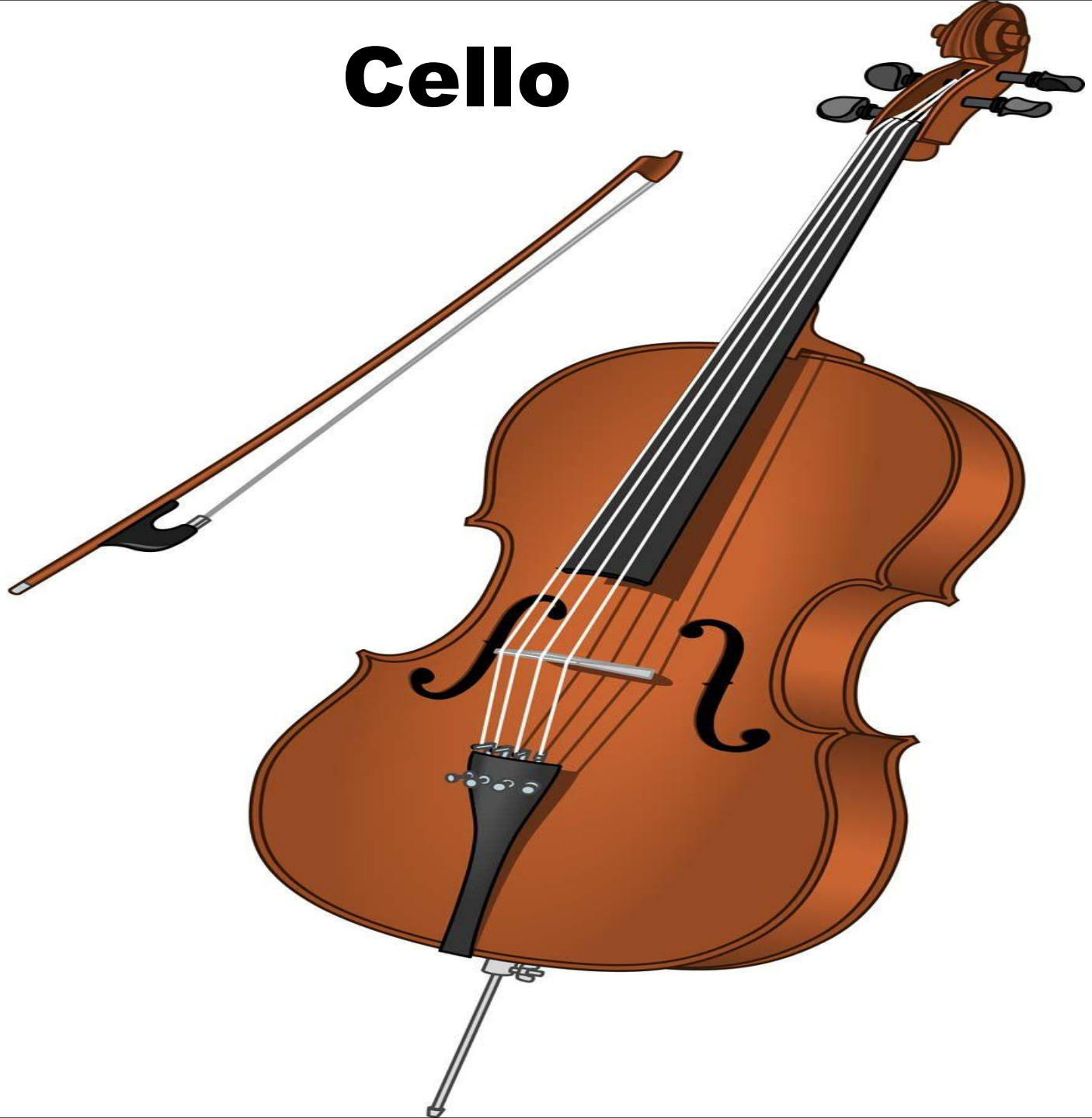
# Differences between a viola and a violin

# The difference between a violin and a viola lies in their size

Violin

Viola

# Cello



# Cello

# Cello

**A cello produces sound by vibration of the strings when bowed**


Double bass

# Double bass

# Double bass


**A double bass produces sound by vibration of the strings when bowed**

# LOW DUST ROSIN

## For Violin Viola Cello Double Bass


Violin

Viola

Cello

Double Bass

# String Instruments

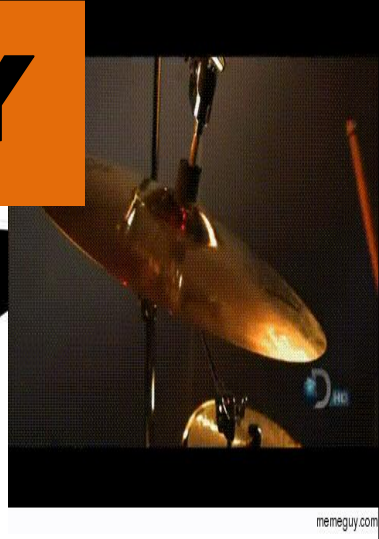
Violin

Viola

Cello

Double bass

# SOUND ENERGY

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# Ways of adjusting the pitch of a string instruments

- By changing the tension of the string

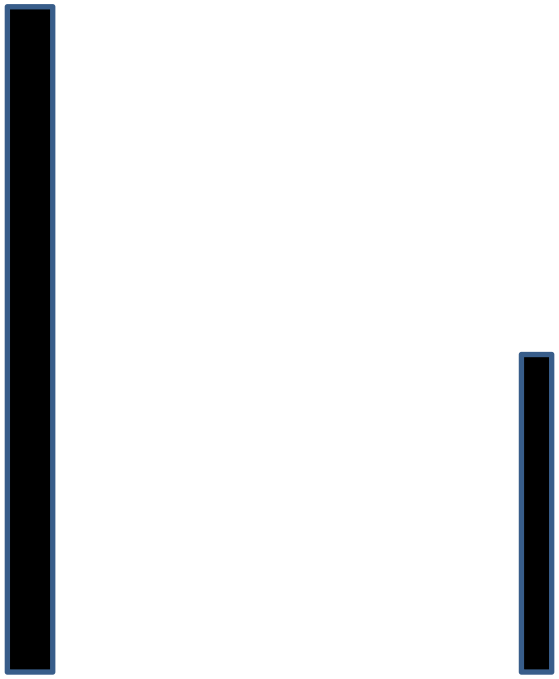
- By changing the length of the string

# How does tension influence pitch of a stringed instrument?

**A loose string produces a lower pitched sound while a tight string produces a higher pitched sound**

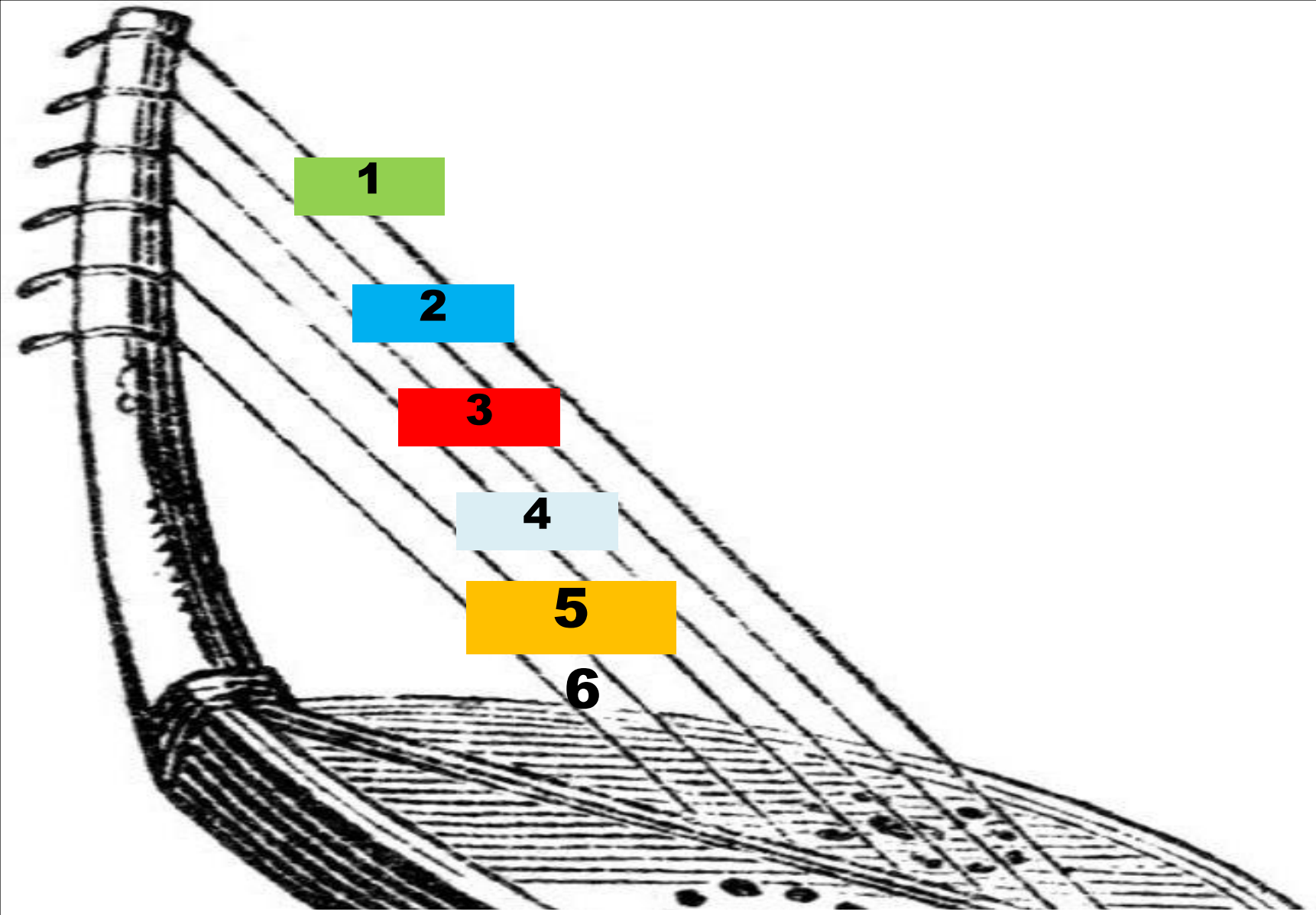
# How does length influence pitch of a stringed instrument?

Lower pitch



higher pitch

A longer string produces a lower pitched sound while a shorter string produces a higher pitched sound




**Which of the above strings produces the highest pitch?**

# Ways of increasing the pitch of a stringed instruments

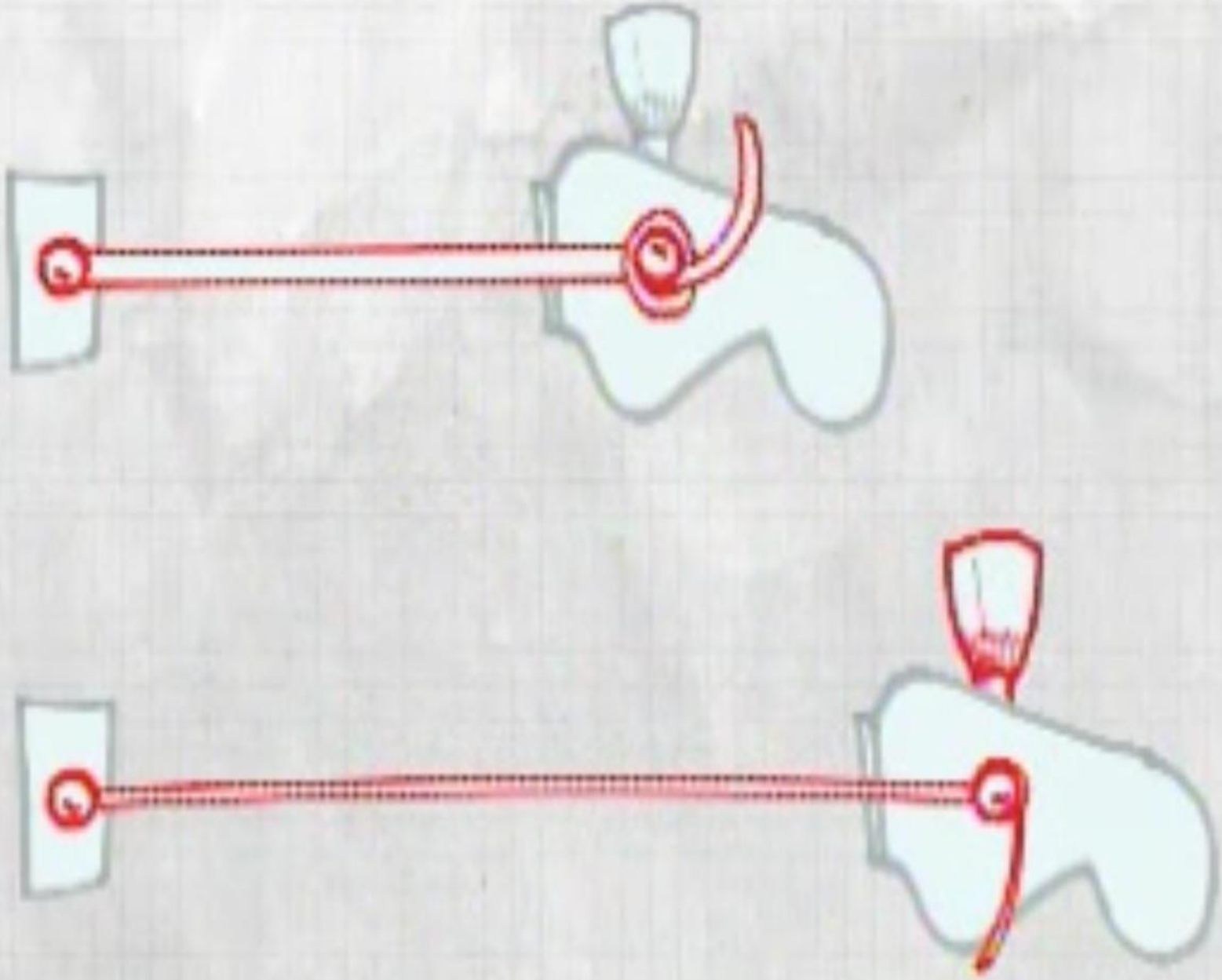
- By making the strings tighter

- By making the strings shorter

# Ways of reducing the pitch of a stringed instruments

- By loosening the strings

- By making the strings longer



# ACTIVITY

Name any one natural source of sound

Write down any three examples of string instrumenst

Give a functional difference between a sound box and a sound hole

Mention any one way of increasing the pitch if a tube fiddle

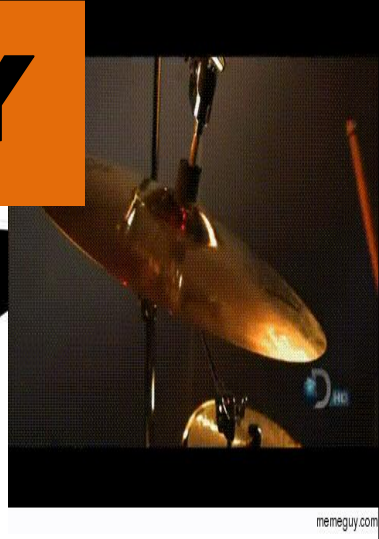
To which group of musical instruments does a guitar belong

# Quiz


**To which group of instruments does a grand piano belong?**

# Grand piano

# SOUND ENERGY

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