

# STEAM ZUBI ALTXAGARRIA

## Arazoaren aurkezpena

Paxkorti eta Muzkurritz herrien artean Meskitza ibaia igarotzen da. Ibai honek 30 metroko zabalera dauka ibaiertzetik ibaiertzera. Herri batetikan bestera joateko jada bi zubi daude. Zubi batean errepidea dago eta kotxeak eta kamioiak igarotzen dira normalean. Ibilgailu hauek gainera abiadura handian doaz eta errepideak bazterbiderik ez duenez txirrindulariek ezin dute zubia hartu. Beste zubia, berriz, oinezkoentzat bakarrik da. Heldu askok erabiltzen duten zubia da, paseatzera ateratzen baitira ibaiaren inguruau, beraz txirrindulariek bigarren zubi hau igarotzeko arazoak dituzte ere bai.

Bi herrietako udaletxeak bildu dira eta akordio batera iritsi dira. Zubi berri bat sortuko dute beste bi zubien artean, eta bidegorri bat prestatuko dute zubi berria eta bi herriak lotzeko. Zubi hau egiteko eskola batzuekin kontaktuan jarri dira udaletxeak, gure eskola horietako bat delarik. Eskola bakoitzeko ikasleek zubi desberdinen maketak sortu beharko dituzte eta horietatik bat aukeratuko dute udaletxeek.

## Bete beharrezko helburuen ikerketa

Zubiak hurrengo ezaugarriak bete beharko ditu:

- Ibaiaren zabalera 30 metrokoa denez, zubiak distantzia hori libratu beharko du alde batetik bestera.

- Zubiaren zabalerak 4 txirrinda bata bestearen alboan igarotzea utzi behar du.

- Zubiak ibaiaren flora eta fauna ahalik eta gutxien kaltetu beharko du, baita babestu ere.

- Zubia inguruko basoekin estetikoki bat etorri beharko da.

- Ibaia 30 metro dituenez, ontzi txikiak igaro daitezke noizbehinka. Horregatikan, zubiaren zatiren bat altxatu beharko da ontzi bat gerturatzerakoan, txirrinden igarotzea geldituko dela lehenagotik abixatuz.

- Diseinua 3D diseinuko software batekin egingo da, ondoren impresora 3D batekin behar diren piezak imprimatuko dira ikasleek bere proiektuetan erabiltzeko gai izateko.

- Proiekтурako erabiltzen diren materialak ingurugiroaren zaintzarekin bat etorri beharko dute: organikoak, birziklatuak, ... izan behar dira.

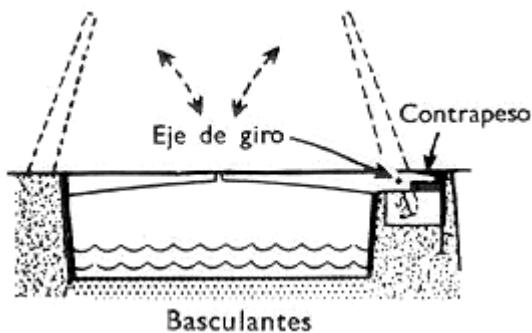
## History

We are going to make it rise and fall with thread on the sides. 5 bikes.



## HOW DOES A DRAWBRIDGE WORK?

A drawbridge is a type of movable bridge that can be raised with the help of a mechanical installation to allow entry through a gate, or to allow maritime traffic across a body of water. The part that moves is rotated through a horizontal axis or as a hinge.



## WHAT IS THE OLDEST BRIDGE IN THE WORLD?

Clam Bridge, considered the oldest bridge in the world. Located in Wycoller, a town in Lancashire, England. It is believed to be approximately 10,000 years old, built during the Neolithic era (the last of the periods in which the Stone Age is considered to be divided).

## LONGEST SUSPENSION BRIDGE

Brooklyn Bridge in New York, United States. Its construction ended in 1883, and due to its length, which exceeds 1,800 meters, it is the longest suspension bridge in existence today.

## WHAT IS A DRAWBRIDGE?

Drawbridge: It is a type of mobile bridge that makes its appearance in the Middle Ages, mainly in military architecture. In Cuba they were used in defensive constructions erected during the 16th, 17th and 18th centuries, for the defense of important cities and ports.



## WHAT IS THE OLDEST DRAWBRIDGE IN THE WORLD?

The Grand Canal in Venice, Italy, is crossed by four bridges. The oldest of them is the Rialto Bridge, which in addition to being popular in the city is also one of the most famous bridges in the world. It was built in 1588, finishing three years later; and its design is the work of the architect Antonio da Ponte.

## WHAT IS THE OLDEST SUSPENSION BRIDGE IN THE WORLD?

The Vizcaya Bridge, the oldest suspension bridge in the world.

## WHAT IS THE MOST FAMOUS DRAWBRIDGE IN THE WORLD?

Tower Bridge, London, England. This bridge was built between 1886 and 1894 and is a symbol of London. It is a combination of a Victorian Neo-Gothic swing and bascule bridge and is located near the Tower of London (hence its name). Tower Bridge is a bascule and suspension bridge in London which crosses the River Thames near the Tower of London and has become one of the symbols of the city .

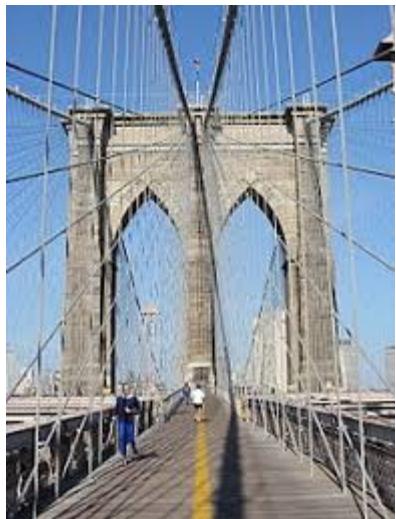
## WHAT IS THE MOST PHOTOGRAPHED BRIDGE IN THE WORLD?

Golden-Gate. The Golden Gate has been listed as the most photographed bridge in the world.

## Dos constructoras de puentes

### EMILY WARREN

Construyó el puente Brooklyn el 3 de enero de 1870. El puente mide 1.834 m. Nació el 23 de septiembre de 1843 y murió el 28 de febrero de 1903. Es estadounidense. Después de la conclusión del puente, la familia Roebling se mudó a Trenton, Nueva Jersey.



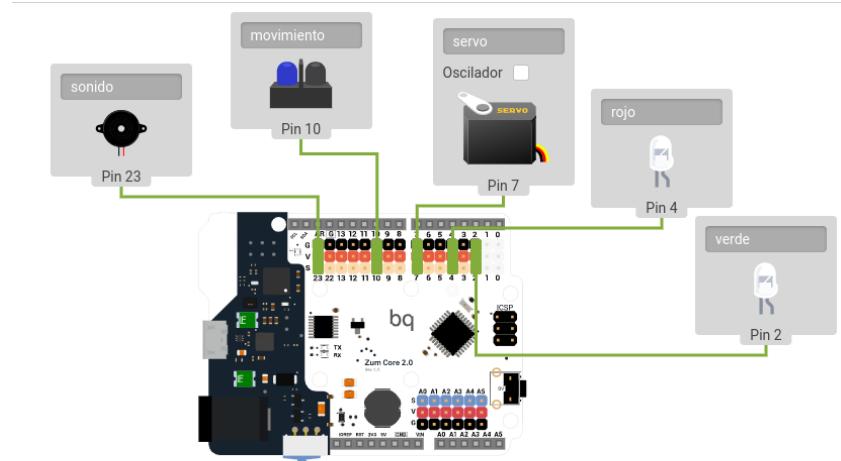
### DOROTHY DONALDSON BUCHANAN

Construyó el puente Harbour en Sydney el 19 de marzo de 1932. Nació el 8 de octubre de 1899 en Dumfriesshire y murió el 13 de junio de 1985 en Somerset. Aprobó con éxito el examen de admisión de la institución en 1927. Se educó en la Academia Langholm en Langholm.



# Programazioa

## NOLA KOKATUKO DIRA



## FUNTZIOAK

This Scratch script shows two parallel functions, `funcion1` and `funcion2`, running simultaneously. Both functions contain the following blocks:

- `Detener el zumbador` (Stop the speaker) with argument `sonido`.
- `Encender` (Turn on) `el LED` `verde`.
- `Apagar` (Turn off) `el LED` `rojo`.

`funcion1` also includes:

- `Mover` (Move) `servo` `a` `90` `grados`.
- `Sonar el zumbador` (Speaker sound) `sonido` `con la nota` `Mi` `durante` `500` `ms`.
- `Esperar` (Wait) `1000` `ms`.

`funcion2` also includes:

- `Encender` (Turn on) `el LED` `verde`.
- `Apagar` (Turn off) `el LED` `rojo`.

## PROGRAMAZIO AMAIERA

This Scratch script defines a `Bucle principal (Loop)` containing the following blocks:

- `Mientras` (While) `Leer` `movimiento` `=` `Verdadero` `ejecutar`:
  - `Ejecutar` `funcion1`.
- `Si` (`Si`) `Leer` `movimiento` `=` `Falso` `ejecutar`:
  - `Ejecutar` `funcion2`.

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