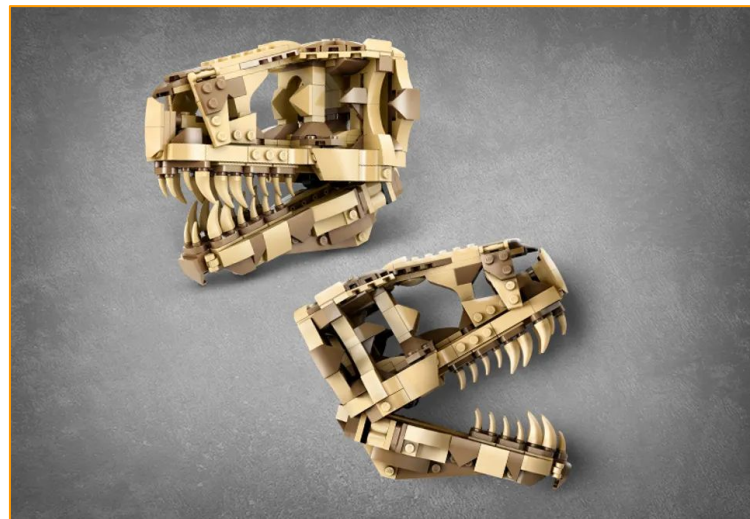


T-Rex Skull

BY:
Ayushi Behl
Disha Kolapate
Pavan Mistry

Dinosaur Fossils: T. rex Skull

LEGO® Jurassic World Dinosaur Fossils: T. rex Skull (76964)



Module Description



The T-Rex Skull Module can be placed next to the Loop Coaster Module. The Skull can be a part of the Amusement park part of the Lego city.

The Dinosaur will have a sensor that detects the arrival of the cart and we can programme it to open its mouth as the cart reached it.

Requirements

We need the below mentioned devices for making the T-Rex Skull open and close :-

- A sensor - To detect the incoming cart on the roller coaster
- Speaker - For making the dinosaur screech
- Motor - Attached to the skull, will make the mouth open and close

Electric components

1. Technic Motor
2. Battery pack
3. Color & Distance Sensor



IOT Loop

While True:

 if status == "on"

 if cartDetected == True and motor is at initial upright position:

 Turn Technic motor 45 degree anti-clockwise

 mouthOpen = True

 else

 mouthOpen = False

 move Technic back to initial position.

 if mouthOpen == True:

 make screech sound.

 else

 stop sound.