

## ACTIVITY TITLE:

Images Come to Life!



## BOOT UP:

DAQRI created a new 4D augmented reality app which brings images to life on your phone! Augmented reality is the blending of virtual reality and real life, as developers can create images within applications that blend in with contents in the real world.

## LOADING...

Download the DAQRI Anatomy 4D app at the App Store or Play Store. Hold your smartphone or tablet over the images on the following pages and watch the images come to life!

## NEXT STEPS:

Imagine if you were the inventor of an augmented reality app. What would your app do? Have a discussion in class about all of the ideas that you came up with, and how they could help society in the future.

## ACTIVITY HOSTS

**Objective:** Technology, innovation and social entrepreneurship - explore how technology could have a positive impact on society in the near future.



# FINAL STEP!

*Activity Hosts* - Don't forget to register your activities on [www.techweek.ie](http://www.techweek.ie).

### [ THE HUMAN BODY ]

**WE GOT THE BEAT**  
Before each beat, your heart fills with blood. The muscle then contracts to squirt the blood along. An adult heart beats **60-80 times per minute**.

**60 - 80**  
BEATS PER MINUTE

**BRAIN POWER**  
The brain operates on the same amount of power as a **10-watt light bulb**, and generates as much energy as a small light bulb even when you're sleeping.

**10w**

**BREATHE IN**  
The surface area of a human lung is equal to a **tennis court**.

**RIGHT VS. LEFT**  
Right-handed people live, on average, **nine years longer** than left-handed people do. The majority of the machines and tools we use on a daily basis are designed for those who are right handed, resulting in thousands of accidents and deaths each year.

**MILES OF VESSELS**  
The human body has **60,000 miles of blood vessels**. The distance around the earth is about 25,000 miles, making the distance your blood vessels could travel if laid end to end more than **2x** around the earth.

**2x**

**WET FEET**  
Feet have **500,000 sweat glands** and can produce more than a pint of sweat a day.

**"SMALL" INTESTINE**  
The largest internal organ is the small intestine. In fact, it's so long that it is actually **four times as long as the average adult is tall**.

**ANATOMY 4D | DAQRI**



# THE HEART

## ELECTRICALLY CHARGED

Because the heart has its own electrical impulse, it can continue to beat even when separated from the body as long as it has an adequate supply of oxygen.



## HOSE VS. HAIR

The aorta, the largest artery in the body, is almost the diameter of a garden hose. Capillaries, on the other hand, are so small that it takes ten of them to equal the thickness of a human hair.



## PASS THE TISSUE

Blood is actually a tissue.

## HEART POWER

The volume of blood pumped by the heart can vary over a wide range, from five to 30 liters per minute.



## ENTRANCE HALL & LITTLE BELLY

"Atrium" is Latin for "entrance hall" and "ventricle" is Latin for "little belly."



## HEART SPRINTS

Even at rest, the muscles of the heart work hard—twice as hard as the leg muscles of a person sprinting.



## TRAVEL PRO

When the body is at rest, it takes only six seconds for the blood to go from the heart to the lungs and back, only eight seconds for it to go to the brain and back, and only 16 seconds for it to reach the toes and travel all the way back to the heart.

ANATOMY 4D | D.A.Q.R.I

Designed by D.A.Q.R.I. Anatomy 4D provides an interactive way to learn about human anatomy through augmented reality. To get started, download the Anatomy 4D app from the Apple App Store or Google Play Store. Visit D.A.Q.R.I. com/anatomy4d to learn more. ©2019 D.A.Q.R.I. All Rights Reserved.

