

VIRTUAL, AUGMENTED AND MIXED REALITY APP GUIDE



VAM Reality CoP

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This document has been developed as a guide to virtual, augmented and mixed reality mobile apps that can be used to support learning and teaching.

It is by no means an exhaustive list and is a work in progress that will grow as more useful apps are released and discovered.

If you know some apps that should be included in this guide, please send us an email with the details.

The VAM Reality CoP team.

VAM Reality CoP: vamreality@lists.cqu.edu.au

Information icons used in this guide:



Virtual Reality App



Augmented Reality App









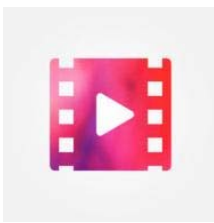





App works on Android Phones



App works on Apple Phones





	<p>Cardboard Camera</p> <p>Cardboard Camera lets you capture 360 images on a smartphone and view them straight away on a mobile device or a Google Cardboard device.</p>	
	<p>YouTube</p> <p>The YouTube app lets you view 360 videos from the app on a mobile device or through a Google Cardboard Device.</p> <p>In YouTube search with the terms “360 video” or “virtual reality”, you will find an amazing number of videos available.</p>	
	<p>VR Tube</p> <p>VR Tube is an app the searches YouTube for 360 and virtual reality videos.</p>	
	<p>VR Player</p> <p>VR Player is a great 360 video player app that supports playing 360 videos from a variety of sources including local content through: Folder, FTP Server, Google Drive, Dropbox and iOS Video Library</p>	
	<p>GoVR Player</p> <p>Go VR Player is a free and powerful VR player app that supports all modes including panoramic 360 videos, 2D and 3D videos. You can view videos from the web and also play locally stored files on the mobile device.</p>	
	<p>Homidio Player</p> <p>Homidio Player allows you to watch 360° spherical videos from YouTube and other 360 video websites.</p>	



Fulldive

Fulldive is a virtual reality (VR) content and navigation platform.

Fulldive allows you to browse and view a new generation of media, such as watching 3D and 360 photos and videos, and also browse the Internet like never before.



WondaVR

The WondaVR app lets you play content you can create on the Wonda VR desktop application.



Blippar

Blippar is an app that lets you view content created on the simple but powerful Blippbuilder. The design tool is easy to learn, and lets you add a layer of interactivity to your printed materials – anything from a poster, a print ad, event stand or book.



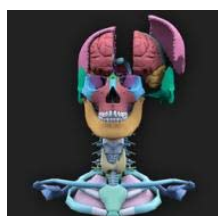
Galileo: AR Physics

The goal with Galileo is to explain with simple words, the complex yet beautiful physics that is inside everything in our world. Get a better understanding of physics with Augmented Reality! Place experiments and animated 3D models on you table and explore them by moving around.



Civilisations AR

Putting history in your hand - the BBC's first ever Augmented Reality app 'Civilisations AR' brings art and culture direct to you from across the world.



The Brain AR

The app lets you explore the layers of the head from skin, muscle and skull down to the inner areas of the brain. By using augmented reality (AR), the user gains an amazing insight into the tissues, structures and areas of the mind by moving the device around the special artwork provided.





Human Anatomy Atlas 2018

Human Anatomy Atlas 2018 Edition is the go-to 3D anatomy reference app for healthcare. The app includes comprehensive male and female 3D and AR gross anatomy models, select microanatomy of tissues and organs, cadaver slices and diagnostic images that are paired with 3D cross-sections, and interactive animations of muscles and bones.



Flightradar24 | Flight Tracker

Turn your iPhone or iPad into a live flight tracker and see planes around the world move in real-time on a detailed map. Or point your device at a plane to find out where it's going and what kind of aircraft it is with AR mode.



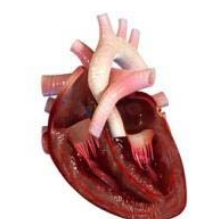
Plane Finder AR

Plane Finder AR - Point the camera at a plane and you'll see the airline, flight number, route, aircraft registration, speed, altitude and even how far away it is! Plane Finder AR blends the data from our Plane Finder virtual radar apps with the Augmented Reality capabilities of your mobile device to show you what is flying overhead.



SkyView

You don't need to be an astronomer to find stars or constellations in the sky, just open SkyView and let it guide you to their location and identify them. Augmented Reality (AR) lets you use your camera to spot objects in the sky, day or night.



Insight Heart

Using AR, Insight Heart lets users easily scan their physical surroundings and place the three-dimensional heart without the need of predefined markers. The virtual assistant ANI will guide you through various states of the heart. Explore the human heart like never before. Rotate and scale the high-resolution heart floating in front of you and feast your eyes on highly detailed 4k textures.









Transparent Earth






















Have you ever imagine how it looks like if the earth were transparent? Using AR Transparent Earth enables you to see-through the earth. Camera overlay view shows the position of major cities on the reversed blue marble.





	<p>AR Circuits</p> <p>With the AR Circuits app students can build and test realistic circuits using augmented reality technology. The app allows you to build circuits without the expense, safety concerns, and inconveniences associated with physical electric components.</p>	
	<p>Theodolite</p> <p>Theodolite HD is a multi-function viewfinder that combines a compass, two-axis inclinometer, rangefinder, GPS, map, nav calculator, and geo-overlay photo/movie camera into one indispensable app. Theodolite was one of the very first augmented reality apps when it was released in 2009.</p>	
	<p>JigSpace</p> <p>JigSpace is the platform to explore and share truly interactive, 3D knowledge for anything. When you ask "How does that work?" the answer is right in front of you, in beautiful, interactive 3D. Dive through dozens of Jigs, learn at your own pace, and satisfy your curiosity.</p>	
	<p>Sun and Moon Tracker AR</p> <p>Point your iPhone to the sky and explore the movement of the sun, moon, planets and stars across the sky while you change time by swiping the display.</p>	
	<p>GeoGebra Augmented Reality</p> <p>Place math objects on any surface, walk around them, and take screenshots from different angles. This app includes several examples of 3D math objects that you can place on your table, floor or any flat surface around you. Guided activities lead you to discover math in the real world by taking screenshots from different perspectives.</p>	
	<p>EON Experience</p> <p>EON Experience VR is a service for viewing interactive Augmented Reality and Virtual Reality applications on your phone. The EON Experience VR application delivers an exceptional AR/VR experience anywhere, anytime.</p>	



	<p>Explore! - Augmented Reality STEM Missions</p> <p>Combining the best teaching methodologies with augmented reality technology, Explore! brings science and math concepts to life! Explore! displays visually rich, 3-D content and encourages students to touch, move, and play with this content. By doing so, students gain a deep understanding of state standards in math and science through an inquiry-based approach.</p>	 
	<p>AnatoScopeAR</p> <p>AnatoScope AR allows to visualize 3D dynamic anatomy with Augmented Reality technology</p>	  
	<p>Anatomy AR</p> <p>Discover Human Anatomy with Augmented Reality and 3D experience.</p> <p>Available in 3 languages: Arabic, English, French (Français).</p>	  
	<p>Hologo</p> <p>Hologo is for students, teachers, schools and lifelong learners. The app brings immersive experiences to the education system, for students to learn better and for teachers to better teach concepts visually like never before using Augmented Reality and Mixed Reality Technology.</p>	 
	<p>AstroReality</p> <p>Explore space like never before with AstroReality, which weaves together Augmented Reality (AR) and cloud technology in an unparalleled way to experience celestial bodies close up. Paired with AstroReality products, you can explore them in an extraordinary AR experience. Featured by Wired, Gizmodo, Mashable and more, AstroReality takes astronomy education and technology to the next level.</p>	  
	<p>Cortical Brain</p> <p>Cortical Brain is a 3D augmented reality App that illuminates several important structures in the brain.</p>	 











	<p>NeutrinoScope</p> <p>Without us knowing it, billions of very small, almost weightless particles are passing through and travelling around us every second - they are called neutrinos! Using augmented reality (AR), NeutrinoScope gives us a glimpse into a world where we can see the invisible and learn all about these peculiar particles.</p>	
	<p>Virtual Skeleton</p> <p>Bring a skeleton into your living room!</p> <p>With this Augmented Reality application you can explore the bones of the human body as if there was a real skeleton in front of you!</p>	
	<p>MolecularAR Experience</p> <p>MolecularAR is a unique educational experience, available for iOS. Are you tired of learning abstract topics that just do not get it through your head?</p> <p>With MolecularAR you can be the one who dives in the topics.</p>	
	<p>Educate AR</p> <p>Explore how augmented reality can enhance the learning process with Educate AR!</p> <p>Educate AR is a powerful augmented reality (AR) app that fetches new AR experiences from the cloud.</p>	
	<p>WWF Free Rivers</p> <p>WWF Free Rivers puts an entire landscape in your hands. Through this immersive, augmented reality experience, you'll discover a river that flows through the lives of people and wildlife, and how their homes depend on those flows. Dam the river to see what happens, and then try different options for sustainable development that keeps the river healthy and flowing. Collect stories of people and animals along the way!</p>	
	<p>ABC AR - Space Discovery</p> <p>Bring the wonders of space into your living room with Space Discovery, the Australian Broadcasting Corporation's first Augmented Reality (AR) experience. Become an astronaut and pilot sections of the International Space Station in zero gravity.</p> <p>Examine a stunning model of Jupiter and learn all about its most amazing attributes.</p>	

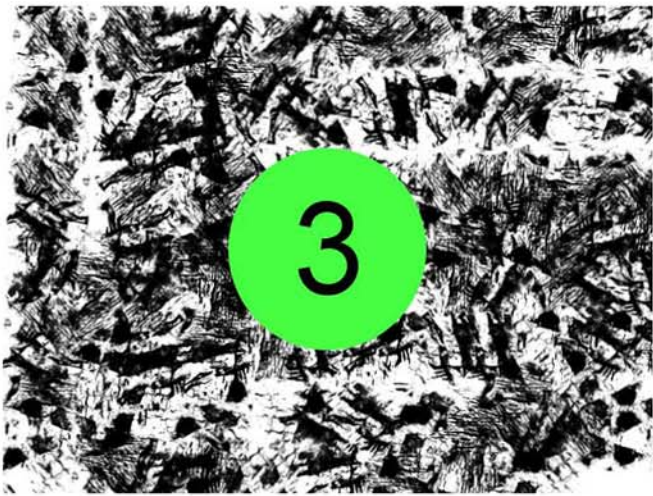
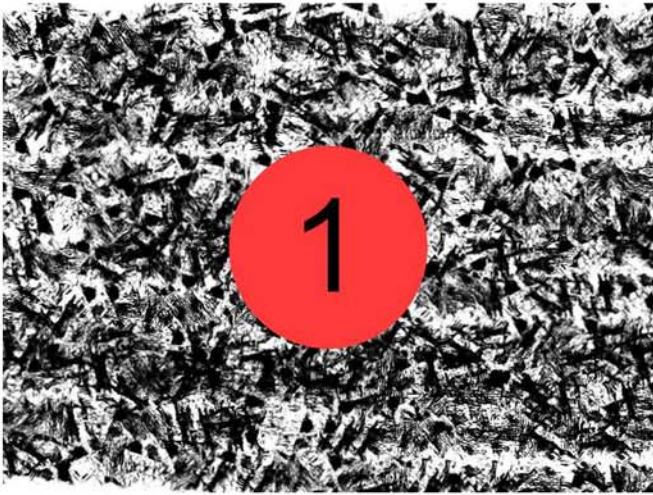


	<p>SketchAR: how to draw with AR</p> <p>SketchAR is for those who have always wanted but have never been able to draw. It is an application through which the user sees a virtual image on the surface of which they are planning to trace a sketch. In addition to this, the app is designed for professional artists as a simple and convenient way to trace sketches onto any desired surface (e.g., canvas, wall, etc.).</p>	
	<p>LightSpace - 3D painting in AR</p> <p>Paint with 3D light in the real world! Use LightSpace to paint wings on your friends, make fireworks in your living room, write love notes with sparklers, and draw faces on bananas.</p>	
	<p>Virtual Reality (VR) Human Brain</p> <p>Virtual Reality model of Human Brain. Enjoy Human Brain in Virtual reality and augmented reality. The Only app to have Human Brain in VR and AR simultaneously.</p>	
	<p>- 3D Virtual Reality Video Player</p> <p>Get the virtual reality experience you want with Snap 360 VR Tube! Snap 360 VR Tube is an application to help you search through all the VR Youtube videos. You don't have to waste time wading through all videos to find real 360° videos that will give you the ultimate virtual reality experience you want.</p>	
	<p>AR Anatomy by Jump Simulation</p> <p>AR Anatomy provides a 3D animated augmented reality look at anatomical systems with different pathological conditions. Used in conjunction with printed triggers provided free of charge at our website, you can view the effects of different medical conditions upon human anatomy. Combining both 3D animation and augmented reality, AR Anatomy provides a captivating look inside the human body.</p>	
	<p>VR Cities</p> <p>Smart2VR welcomes you to explore the greatest cities of the world in immersive Virtual Reality. Experience beautiful places, such as Paris and Venice, as if you're really there. Use a Google Cardboard, Zeiss VR One, or other VR headset to start your journey from your own couch or swivel chair. New cities are added regularly, so feel free to come back anytime.</p>	

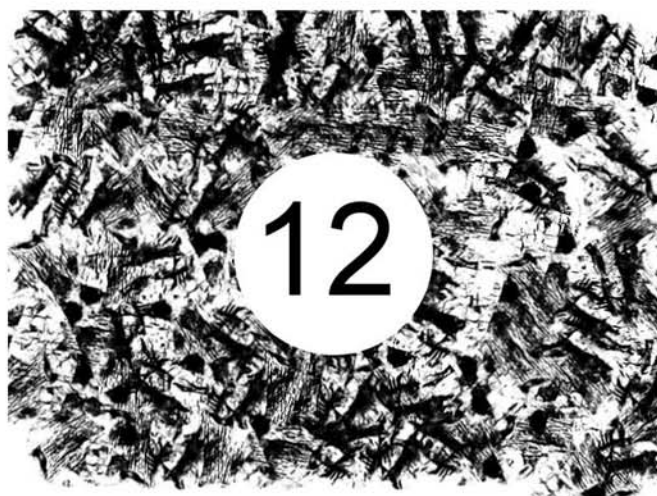
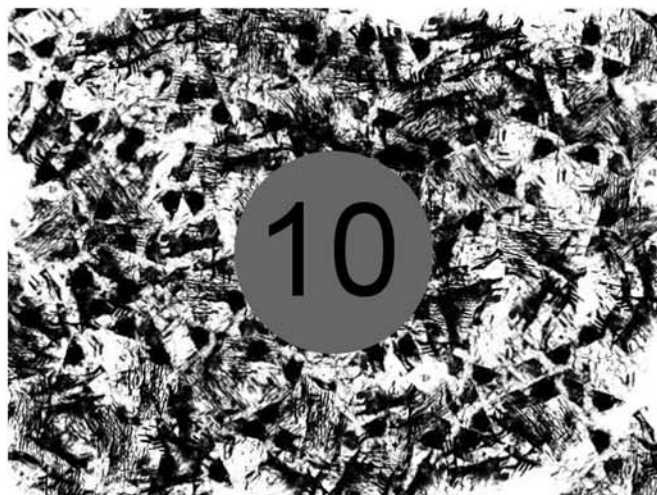
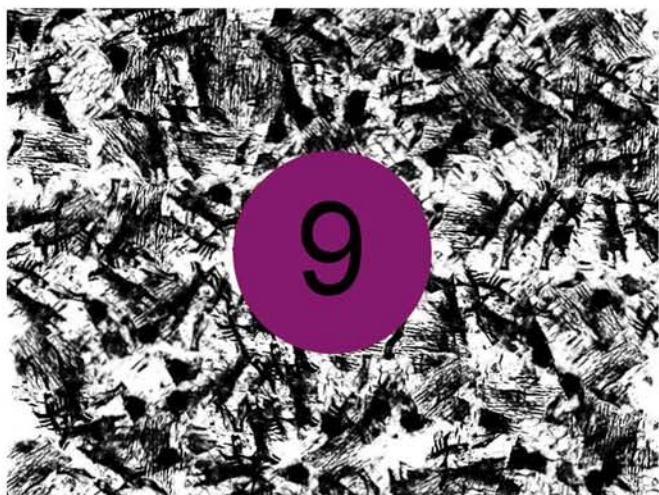


	<p>Solar System - AR View</p> <ul style="list-style-type: none"> - See all planets, dwarf planets and most relevant moons in space in your room - Walk around the solar system and explore it yourself - See it in scale mode to understand how large each planet really is in comparison with each other - See it in scale mode to see how far apart each planet is - Go to each planet to get much more detailed information about each planet and its moons. 	 
	<p>Mirage - molecular geometry</p> <p>Mirage applications are intended to be used in science classroom (senior high school). To use this application you need to download and print the marker set: http://mirage.ticedu.fr/?p=2324</p>	  
	<p>Luke AR</p> <p>Luke AR allows you to view the human anatomy in Augmented Reality. No matter where you are, inside or outdoors, a life size human model will appear to be standing right before you! You can walk all the way around the model to see the internal organs from any angle. Toggle on and off the visibility of five major body systems.</p>	 
	<p>Solar System - Space Museum - VR/AR</p> <p>VR Space Museum is the best app for space exploration. Doesn't matter if you like astronomy or want to learn about space this app will help you and take you to a beautiful journey of our galaxy. Explore the solar system in virtual reality environment and learn about planets. Now you can enjoy this game in AR Augmented Reality and in 3D without VR or AR Headset too.</p>	   
	<p>Waypoint EDU</p> <p>Waypoint EDU is a fun, educational augmented-reality scavenger hunt game for classrooms and families.</p>	 
	<p>AR VR Molecules Editor</p> <p>AR VR Molecules Editor allows one to build and manipulate 3D molecules models of organic and inorganic compounds in a smartphone VR headset. This is a valuable tool for chemistry students for learning about molecular bonding with the aid of VR visualization.</p>	   



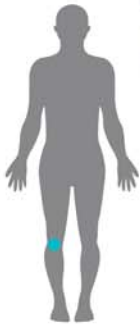


Mirage - molecular geometry



Mirage - molecular geometry

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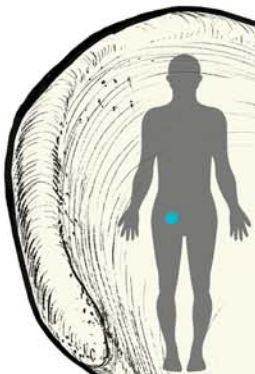
jump
SIMULATION

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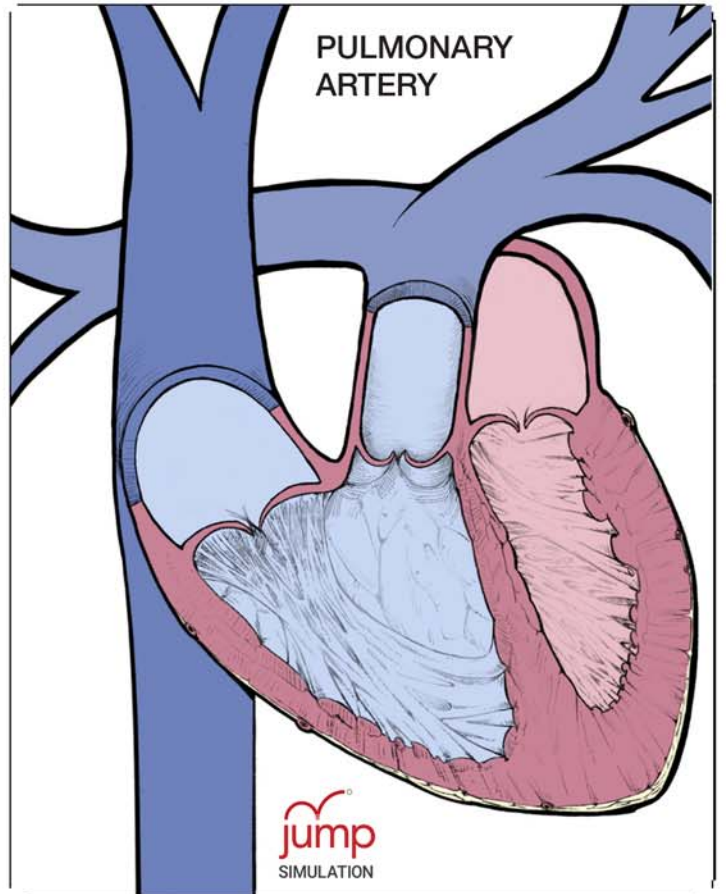
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jump
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jump
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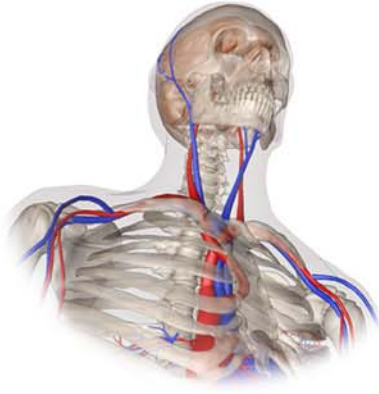


Anatomy





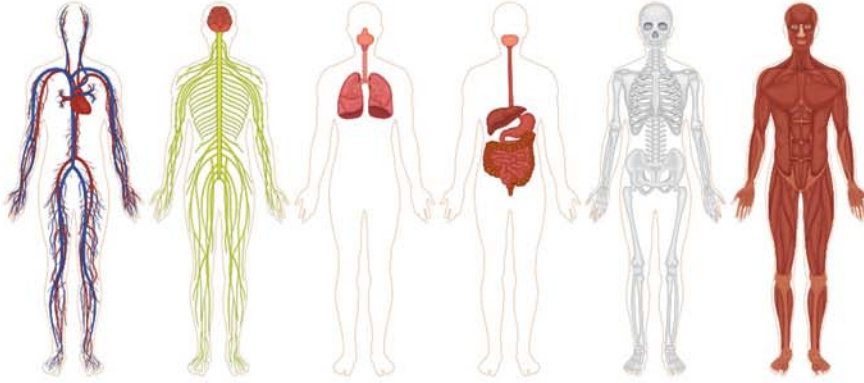
EON Experience VR



جسم الإنسان

Human Anatomy

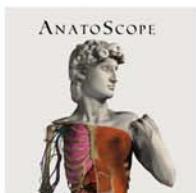
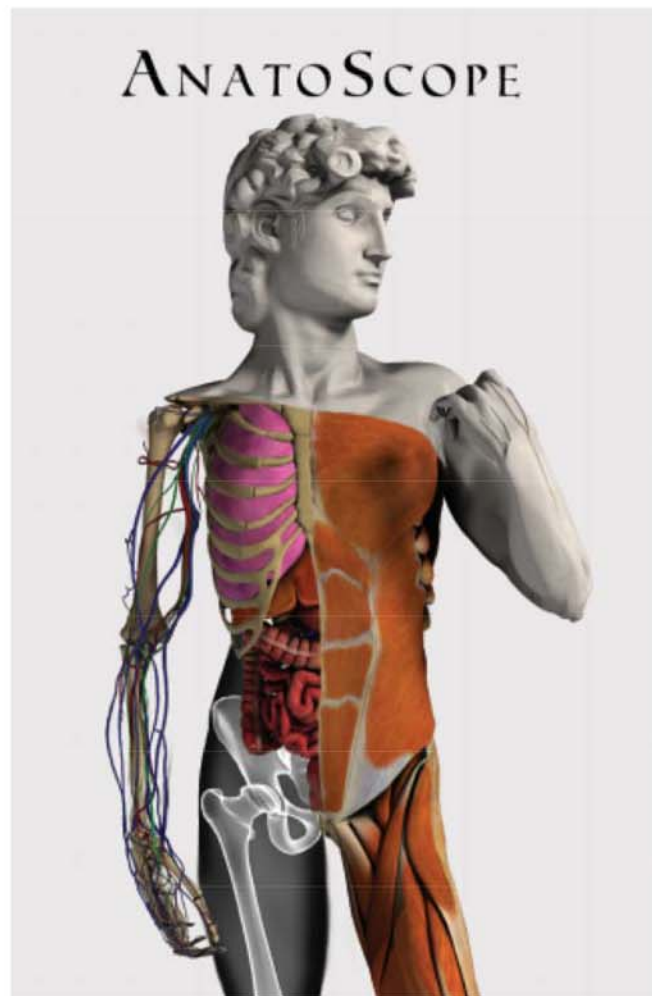
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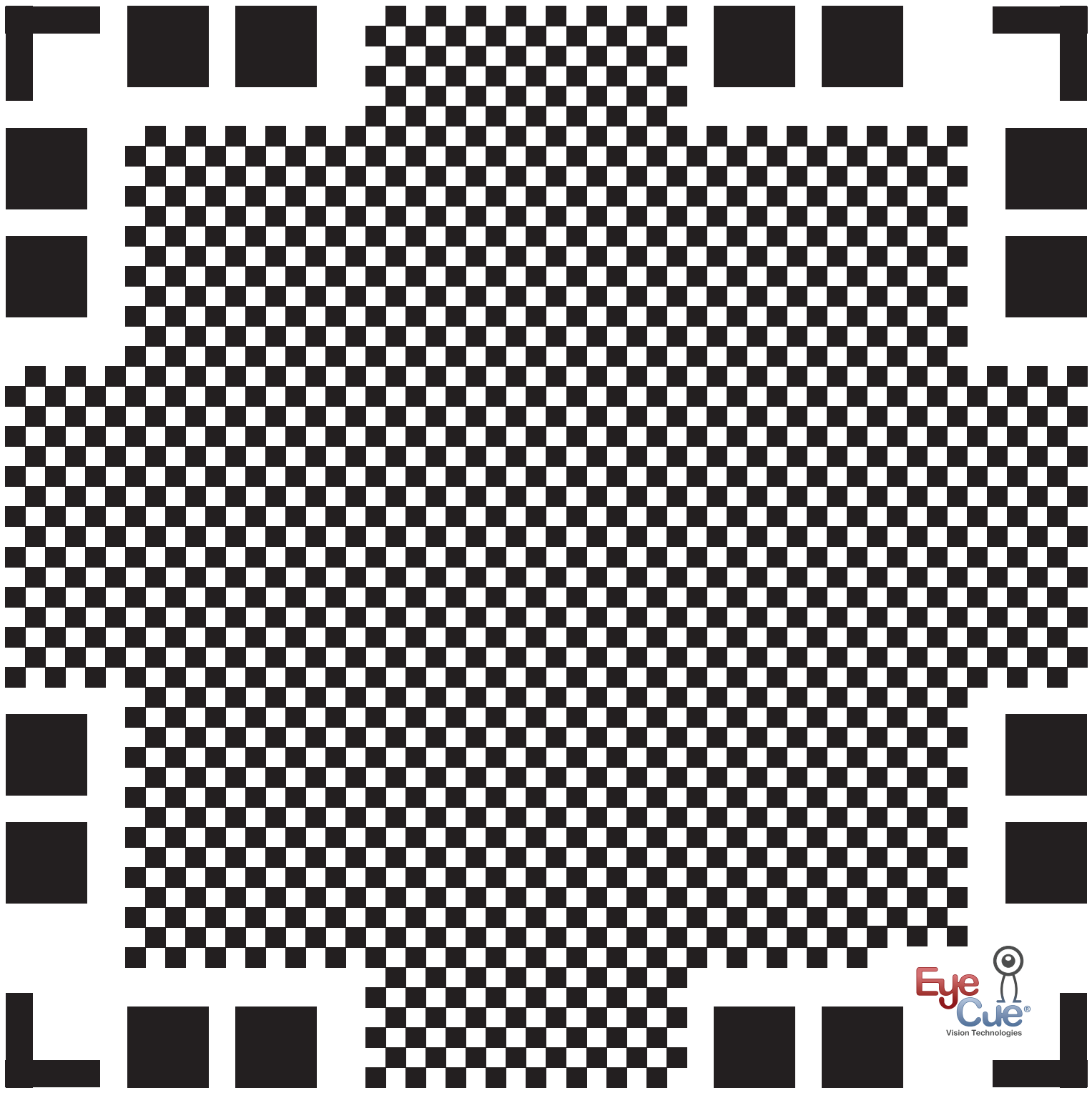
تجربة واقع افتراضي مُعزّز
Augmented reality experience



Human Anatomy



AnatoScope





Download **Educate AR** from your app store.

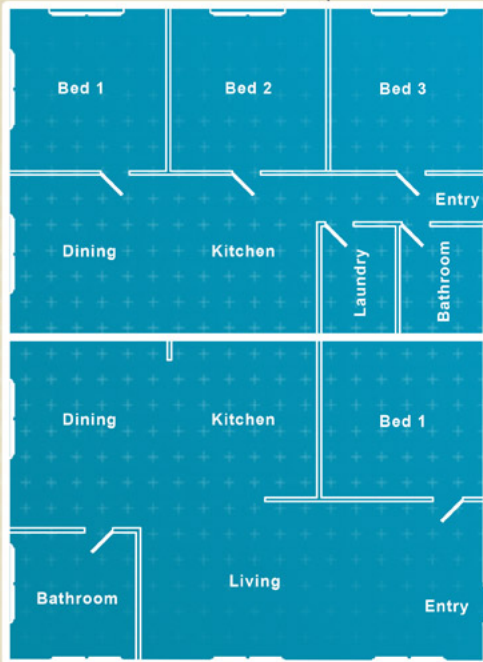
Once installed, tap '**Launch**' and then point your camera at any of these triggers to unlock the Augmented Reality (AR) experience.



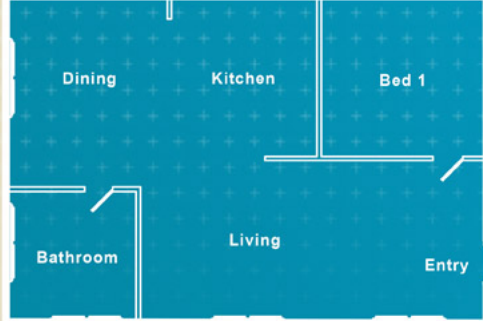
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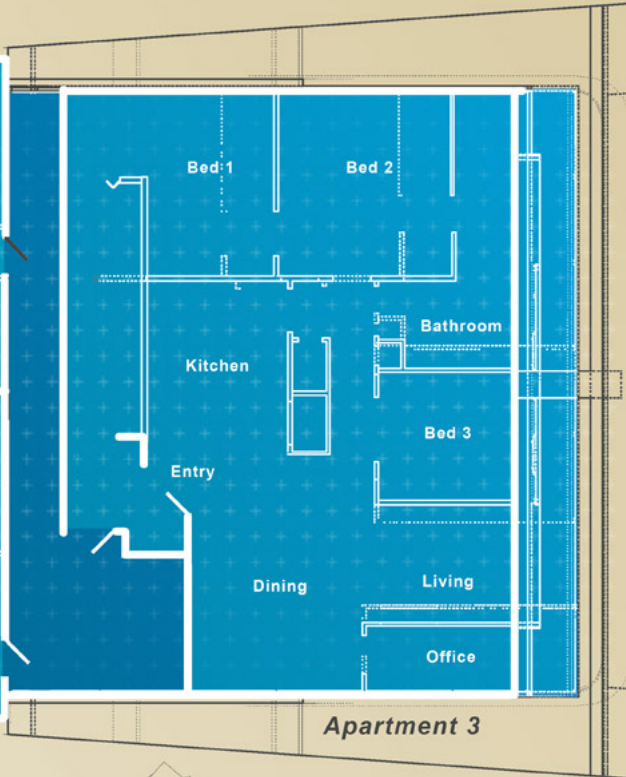
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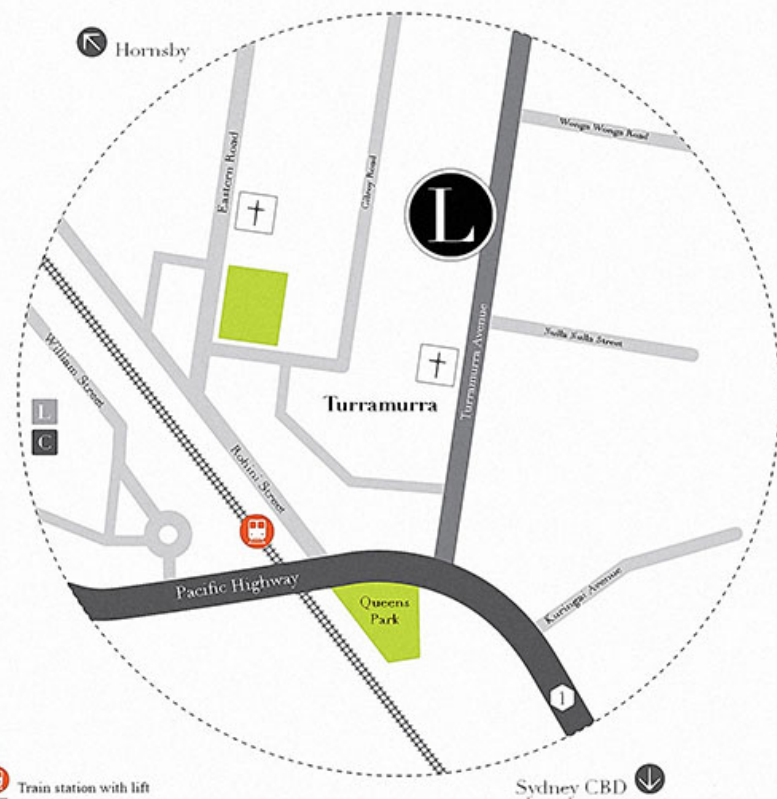
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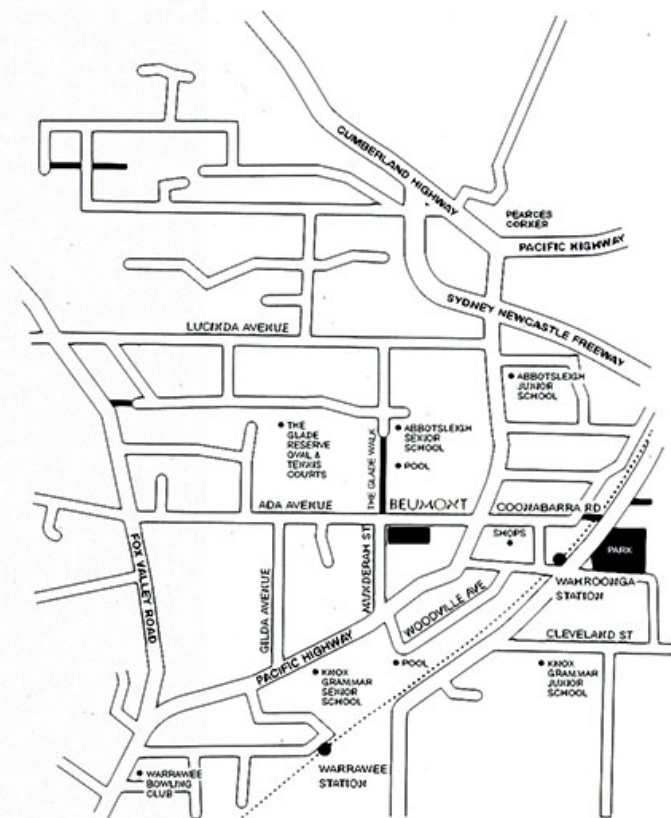
Apartment 3

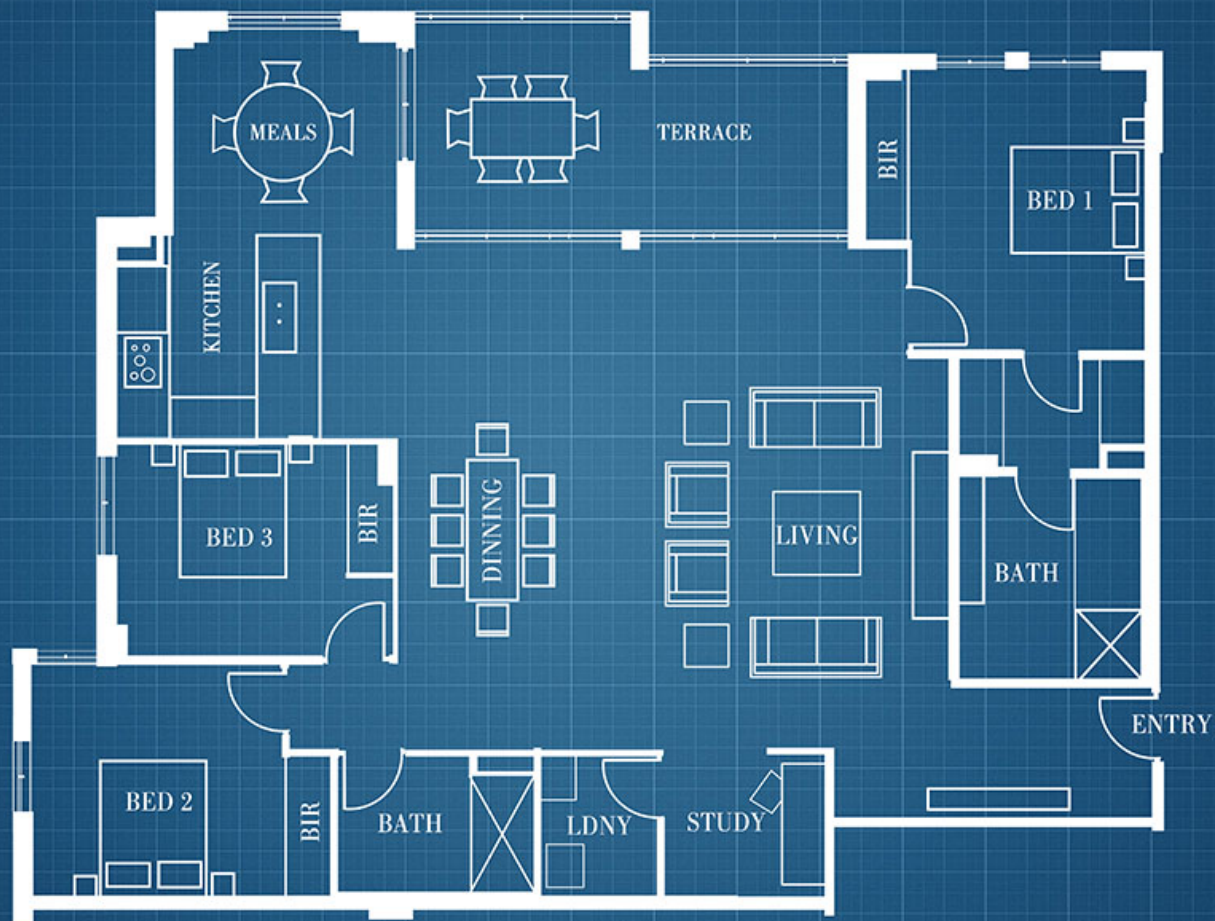


THE LAINSBOROUGH



-  Train station with lift
-  Turrumura library
-  Coles supermarket





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The British Museum

The Parthenon Sculptures

The Parthenon in Athens has a long and complex history.

Built nearly 2,500 years ago as a temple dedicated to the Greek goddess Athena, it was for a thousand years the church of the Virgin Mary of the Athenians, then a mosque, and finally an archaeological ruin.

The building was altered and the sculptures much damaged over the course of the centuries.



Figure of Iris from the west pediment of the Parthenon



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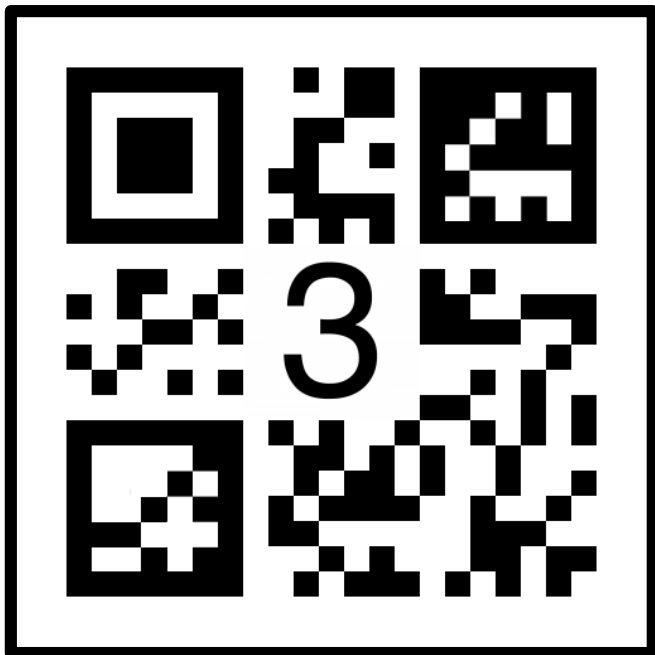
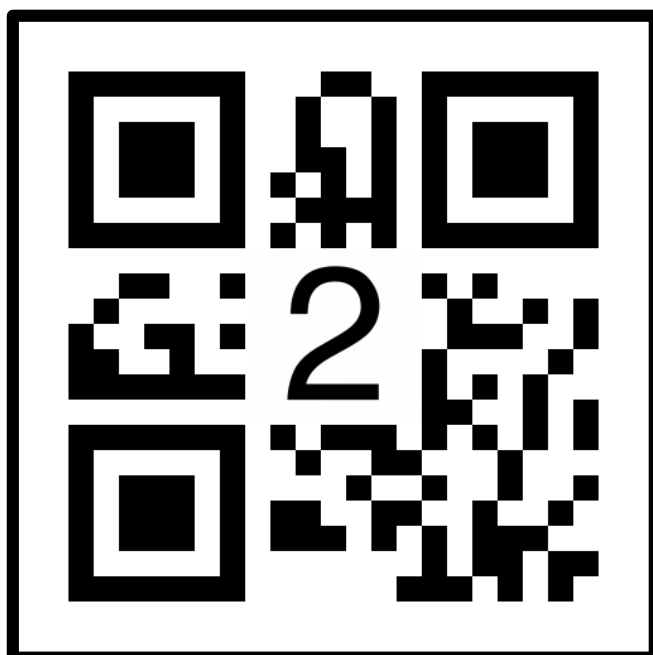
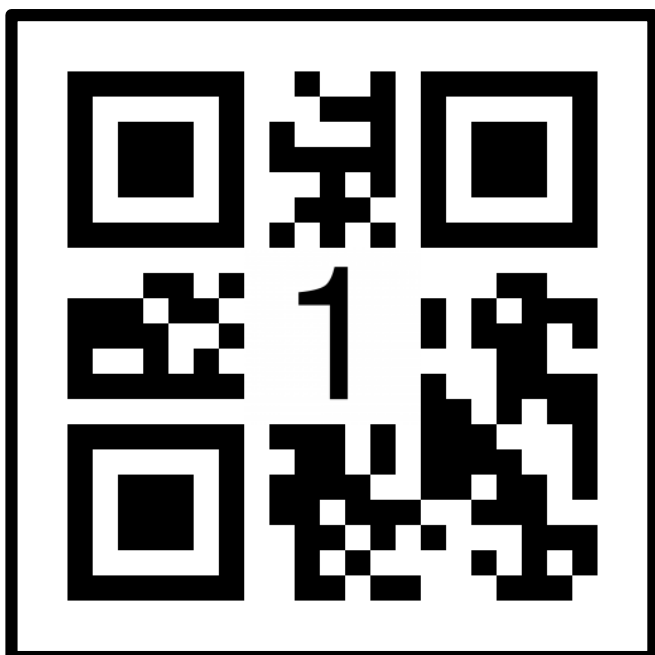


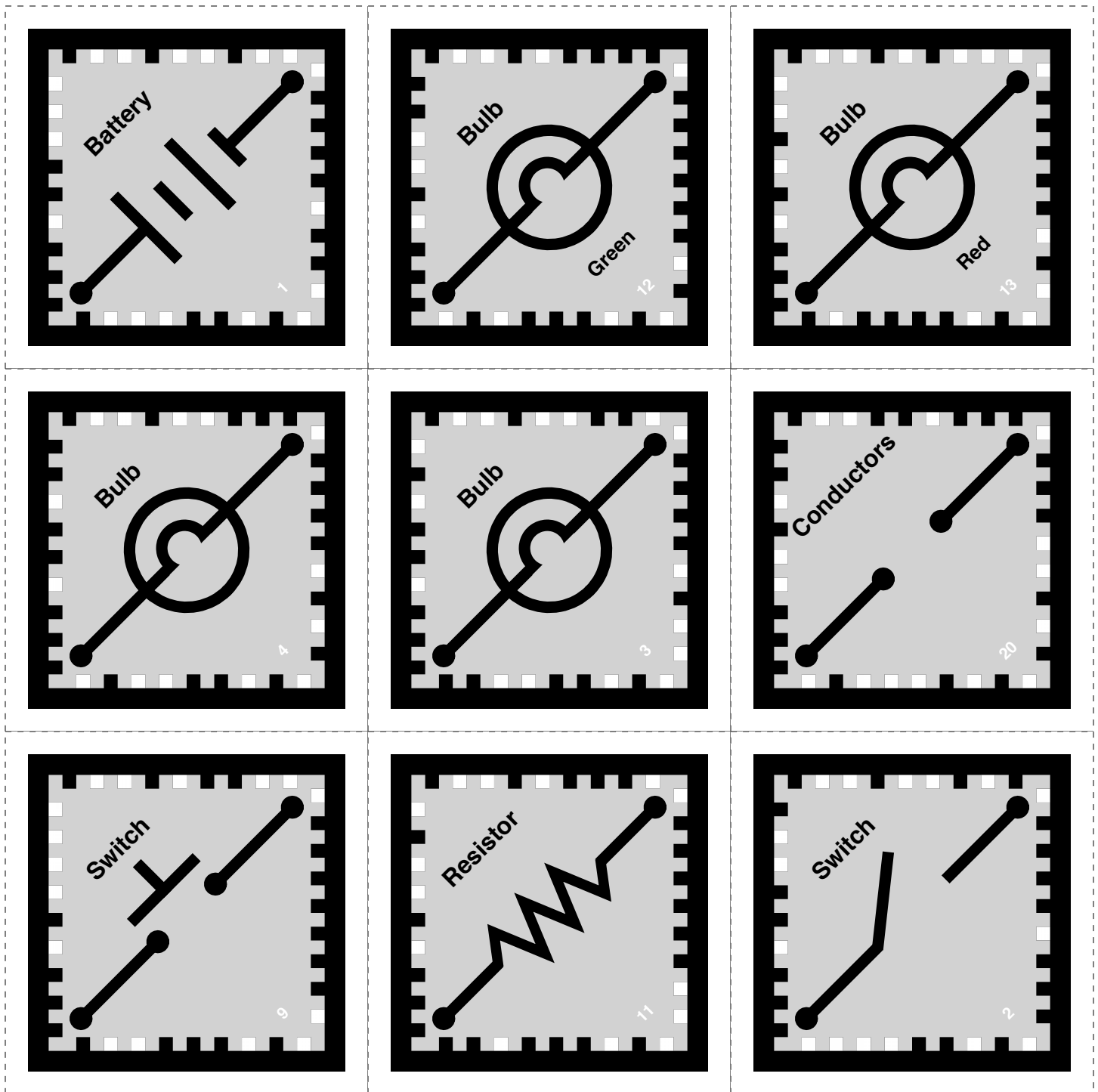


అద్భుతం!

Augmented
Reality
+ VR

 Cut out these ExploreCards to get started!





AR Circuits Component Cards

- These cards require the latest version of the AR Circuits app.
- Carefully cut along the dotted lines and maintain the whitespace around each component card.
- The cards work best when they are printed on or adhered to paper stock that resists bending.
- Visit arcircuits.com for more information.

