

Insegnare STEAM con la realtà aumentata

Grzegorz Karwasz

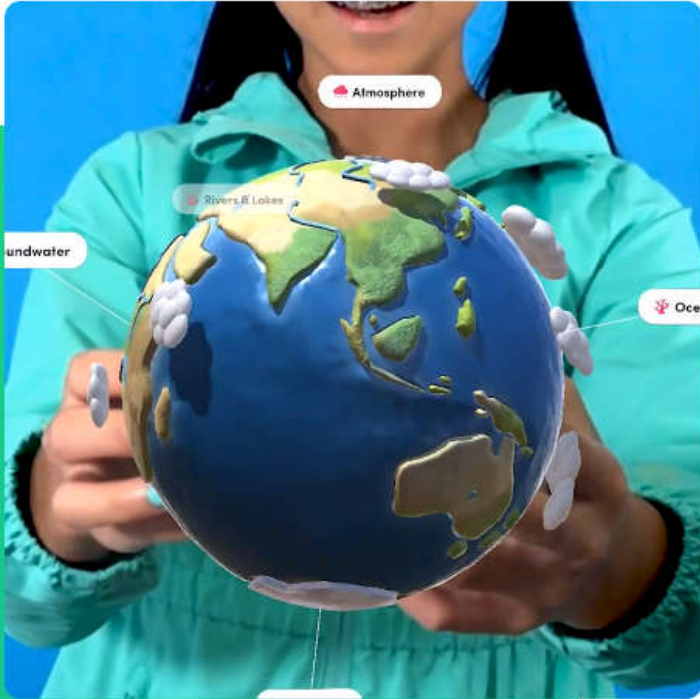
*Lezione 2: «Realtà aumentata» - Parte 3:
l'educazione*

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VR Traffic Rules x | google search e x | Google x | Teacher App Lib x | Top 10 Best Aug x | Augmented Real x | Impara la scienza x +

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Atmosphere

Rivers & Lakes

Underwater

Ocean



SCIENZA

La nuova classe di scienze

Insegna la scienza con sussidi didattici digitali e pratici e simulazioni interattive progettate per l'uso a casa e in classe.

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16:40
03/09/2022

5

Esercizio di tecnica

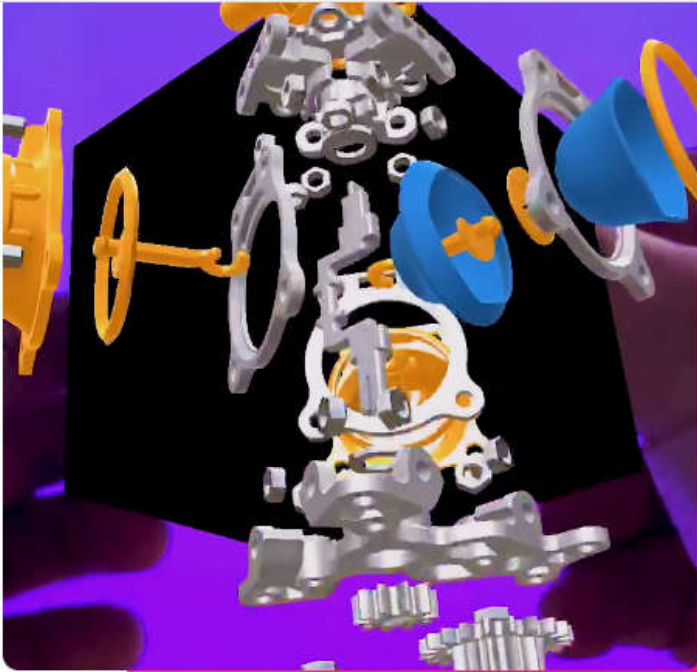


STEM

Oltre la classe STEM

Ottimizza il processo di progettazione ingegneristica con oggetti 3D che i tuoi studenti possono tenere e condividere da qualsiasi luogo.

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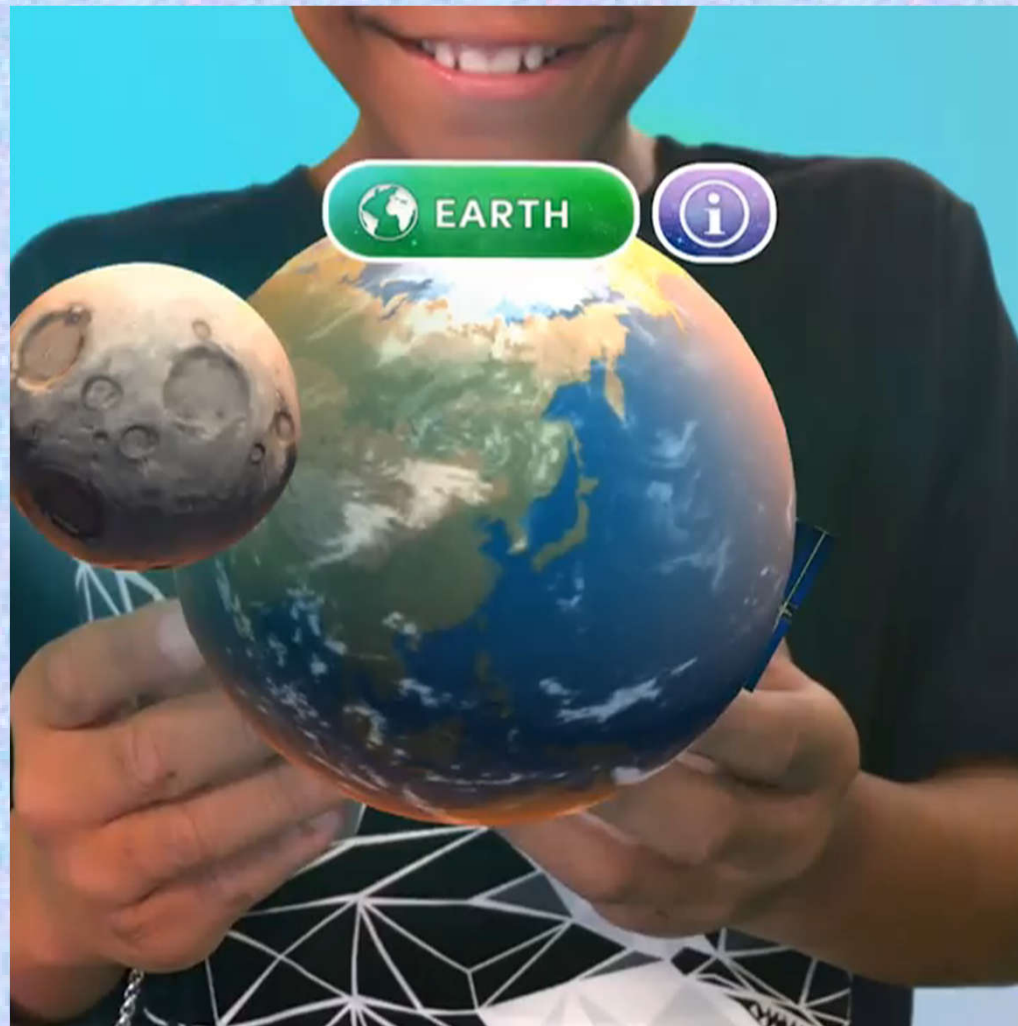
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<https://mergeedu.com/>



<https://mergeedu.com/> «blended learning»



Headset

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MERGE HEADSET

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Take 360° virtual field trips and experience learning.

Explore the solar system, walk with dinosaurs, travel the world, and experience life from new perspectives. Find 360° videos and experiences at Merge Miniverse online.



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Coding «cube»

Nuc x PHE x zan x ebc x Sca x deg x Doc x Inc x

mergeedu.com/cube

MERGE

Cube Headset



MERGE CUBE

Hold Anything

The Merge Cube Lets you hold digital 3D objects, enabling an entirely new way to learn and interact with the digital world.

Now students can explore a galaxy in the palm of their hand, hold fossils and ancient artifacts, explore a DNA molecule, investigate the Earth's core, dissect a virtual frog, hold and share their own 3D creations, and so much more.



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20:21
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Ricchezza di materiali didattici

dashboard.mergeedu.com/home

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- Science Simulations
- Globe Activities NEW
- Activity Plans

STEM

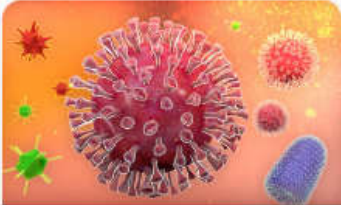
- STEM Projects

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- Get a Merge Cube
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★ **Featured Content**

Teaching Aids



Viruses

Virus



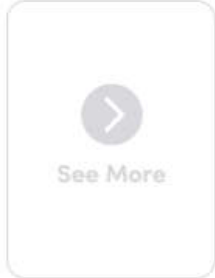
Phases of the Moon

Fasi della Luna



Meteorology

Meteorologia



See More

Globe Activities



Vegetation

Vegetazione



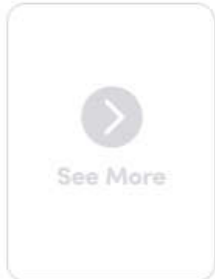
Ice

Ghiaccio



World Map

Mappe mondiale

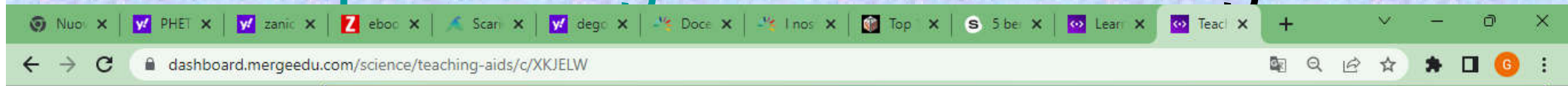


See More

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https://mergeedu.com/ Biologia



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Hello, GRZEGORZ KARWASZ

Collections

Objects

< Back



Viruses

Viruses

Collection Code: XKJELW

Explore the microscopic world of viruses! Learn about how they spread and cause simple ailments like the common cold to the most world's deadly infections and diseases.



Launch in App

Share Options

Adenovirus Vaiolo Coronavirus Ebola Epatite AIDS

Collection Content



Adenovirus



Chicken Pox



Coronavirus



Ebola



Hepatitis C



Human Immu...

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https://play.google.com/store/apps/details?id=com.MergeCube.ObjectViewer

Nuc xPHE xzan xZ ebc xSca xdeg xDoc xInc xTop xS 5 b xLea xTea xMer x

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Google PlayGamesAppsMoviesBooksKids

Merge Object Viewer

Merge EDU
In-app purchases

2.6★
762 reviews

100K+
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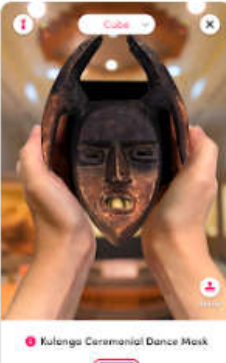
Collections


Anatomy Of The Brain


Anatomy of The Ear


Cube


Cube


Cube


World

Developer contact

Similar apps

 Merge Explorer
Merge EDU
3.9★

 Fluids & Sounds Simulation LWP

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<https://mergeedu.com/>

The screenshot shows a web browser window with multiple tabs open. The active tab is titled 'dashboard.mergeedu.com/science/teaching-aids/c/XKJELW'. The page content is a video player with the title 'Viruses'. The video player has a large text overlay that reads: 'Explore the microscopic world of viruses! Learn about how they spread and cause simple ailments like the common cold to the most world's deadly infections and'. A play button is visible in the center of the video player. The browser's address bar shows the URL 'dashboard.mergeedu.com/science/teaching-aids/c/XKJELW'. The Windows taskbar at the bottom shows the system tray with the date '15/09/2022' and time '09:29'. The taskbar also shows several open applications, including a video player, a PDF viewer, and a file explorer.

Viruses

Explore the microscopic world of viruses!

Learn about how they spread and cause simple ailments like the common cold to the most world's deadly infections and

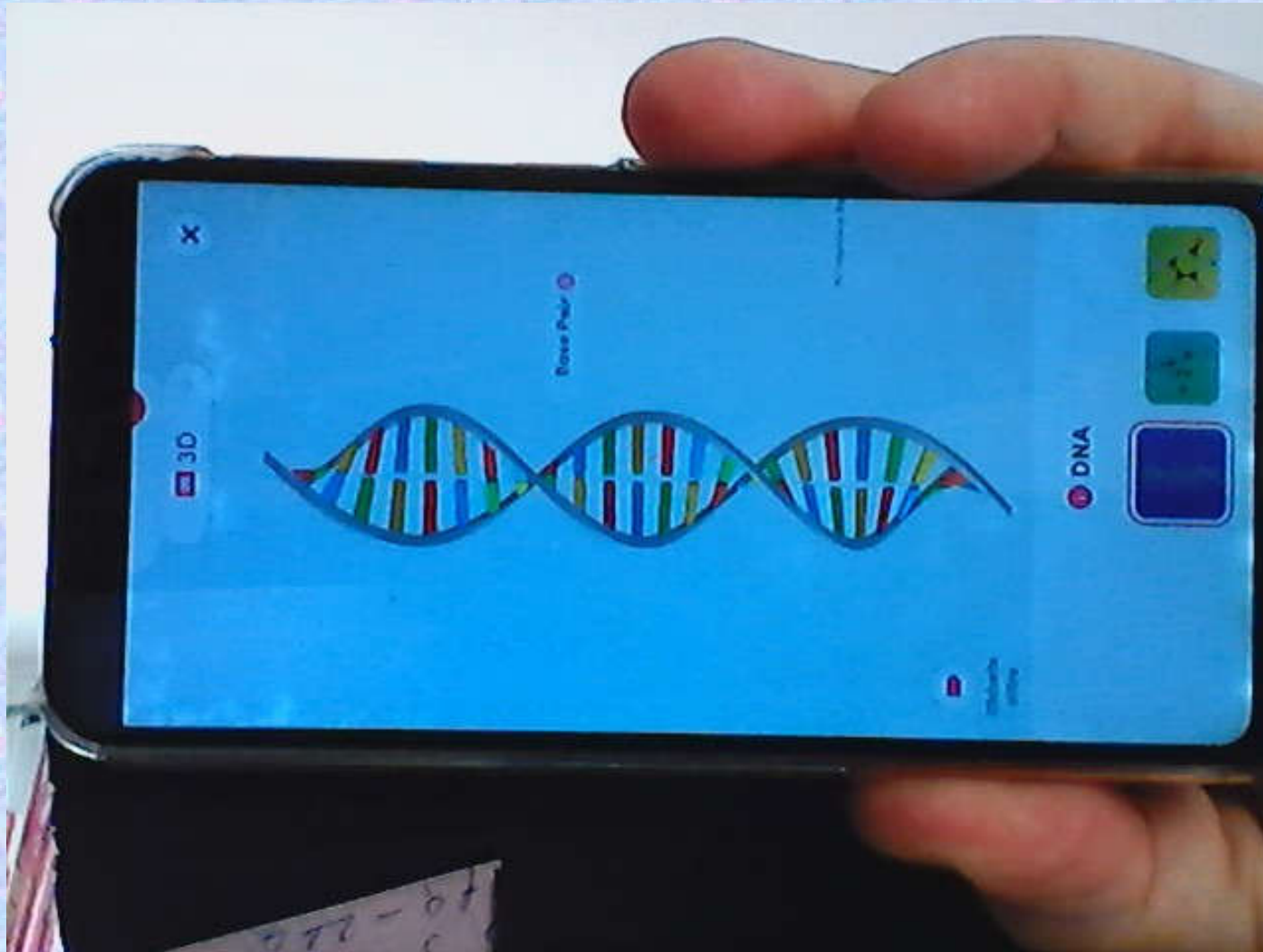
main-top.mp4 vdm_sienze_ss1g.pdf BooktabSetup64.exe

16°C Soleggiato 09:29 15/09/2022

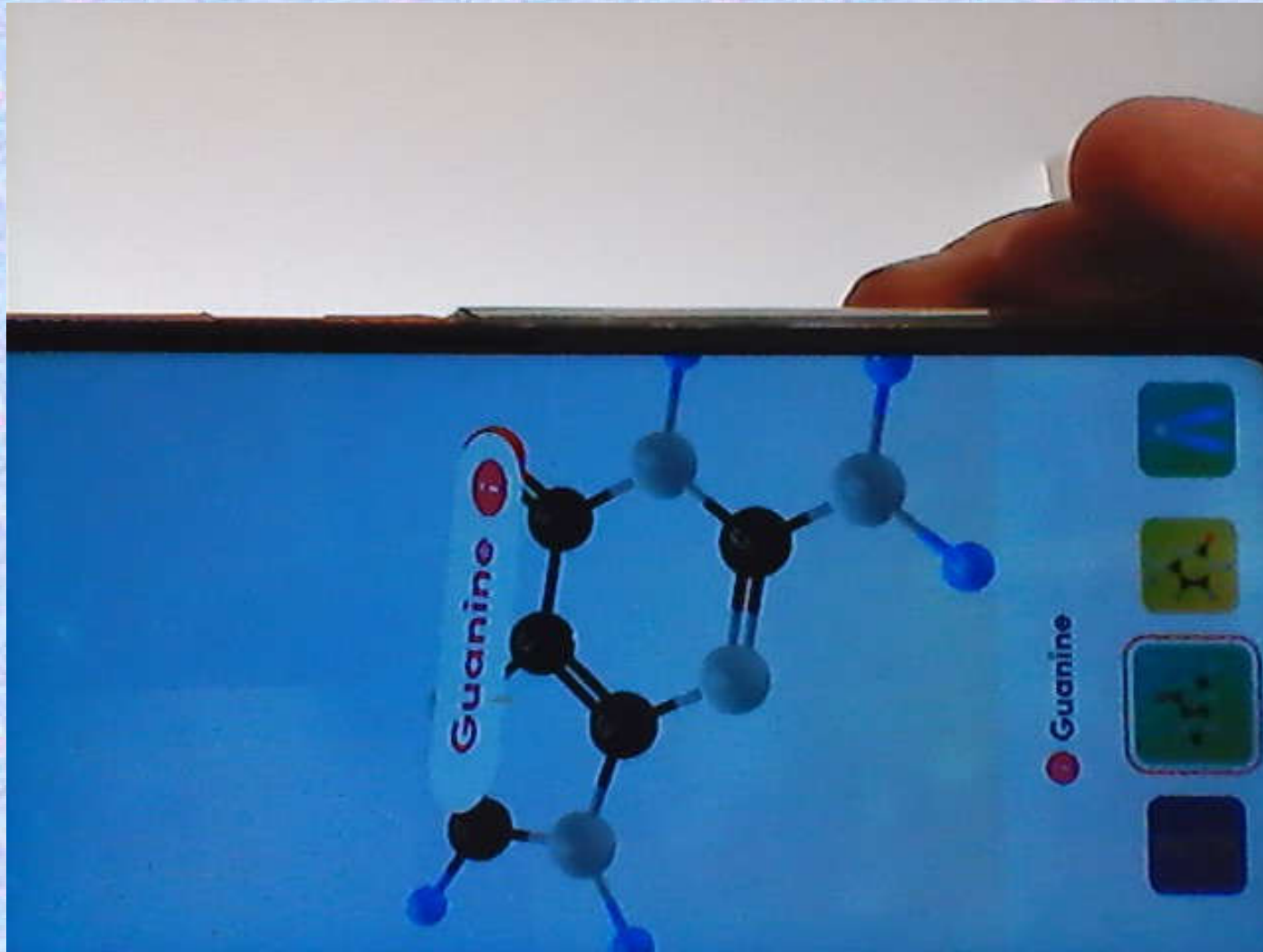
La struttura del DNA



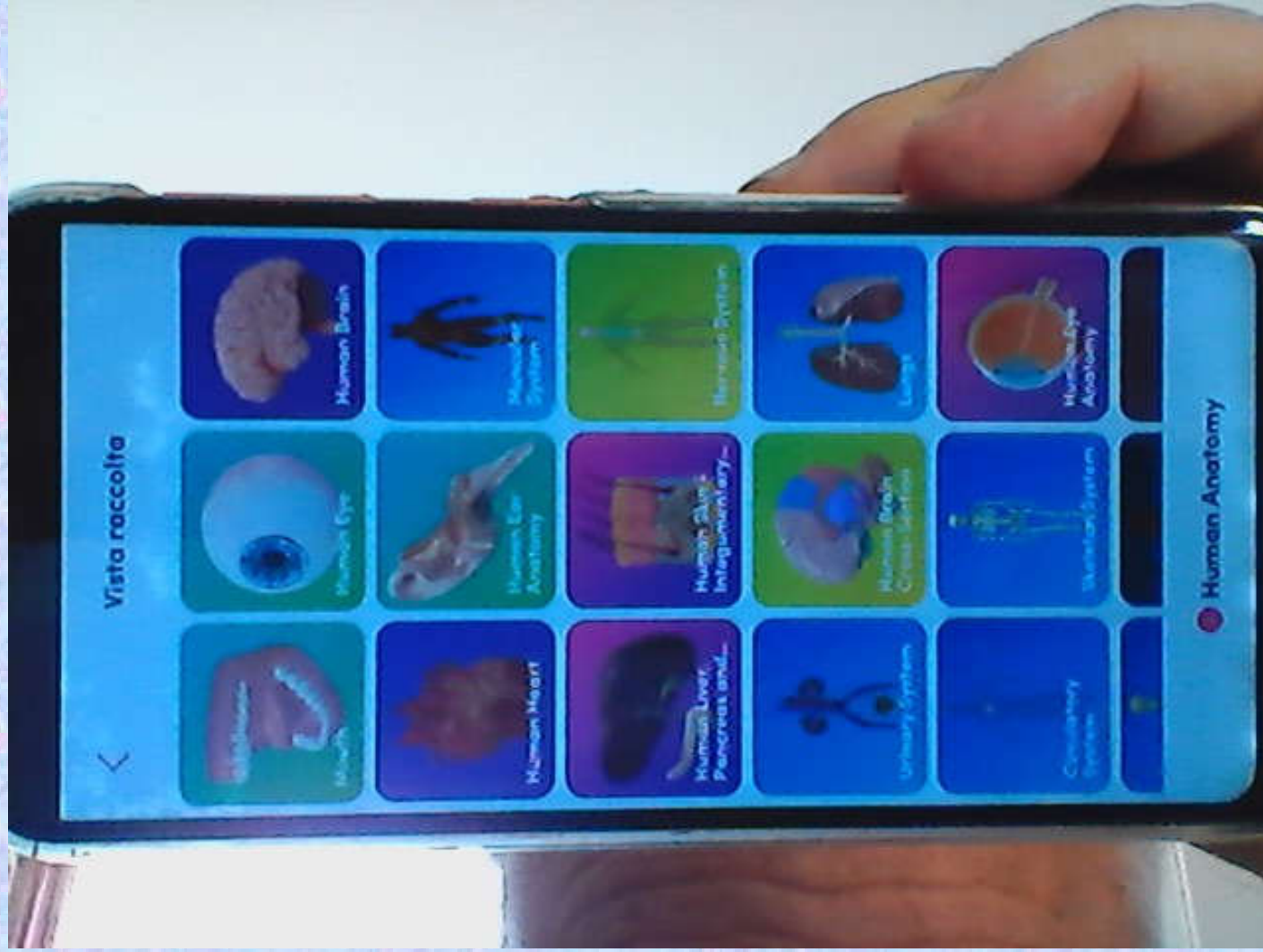
La struttura del DNA



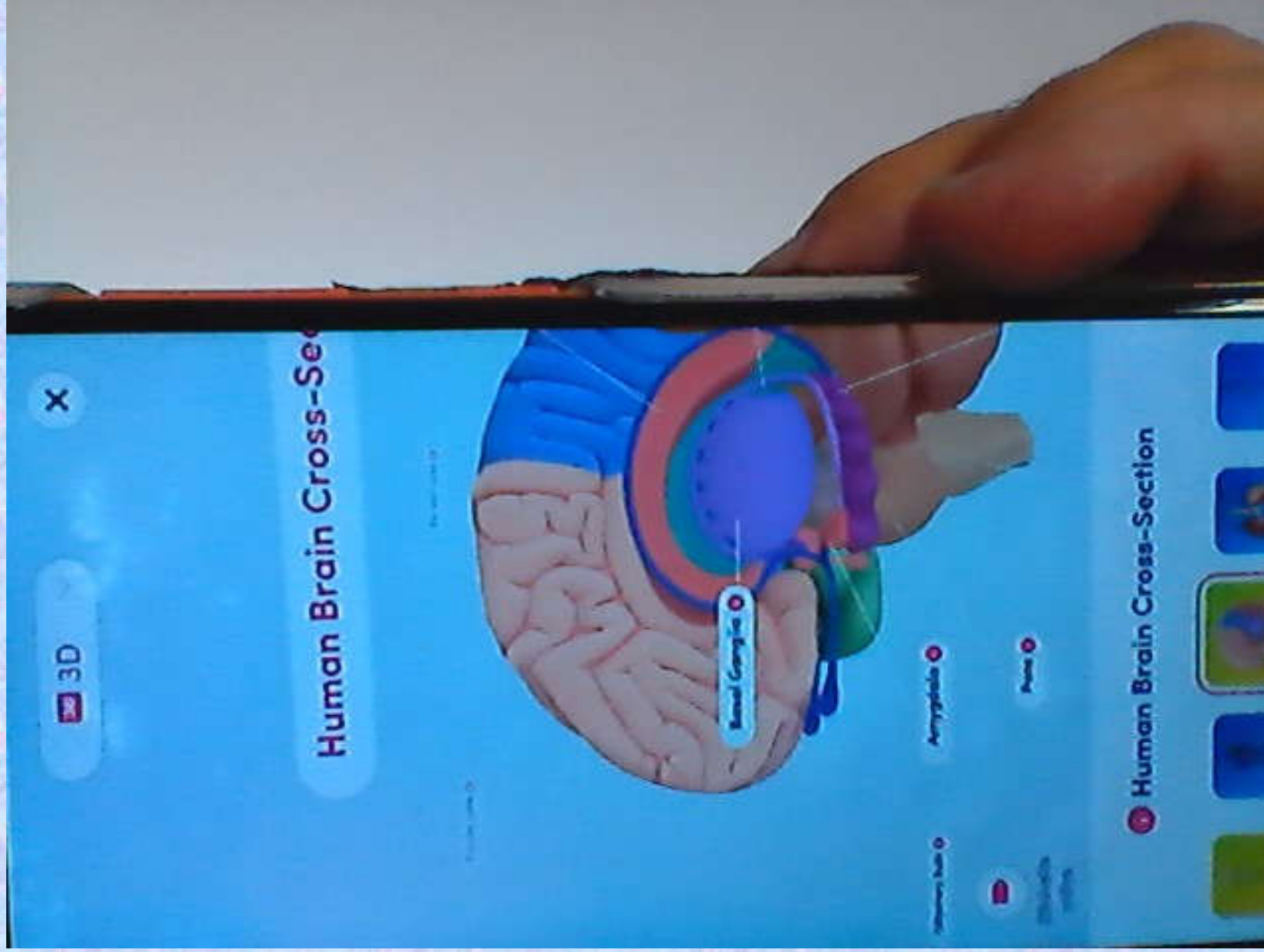
Componenti del DNA

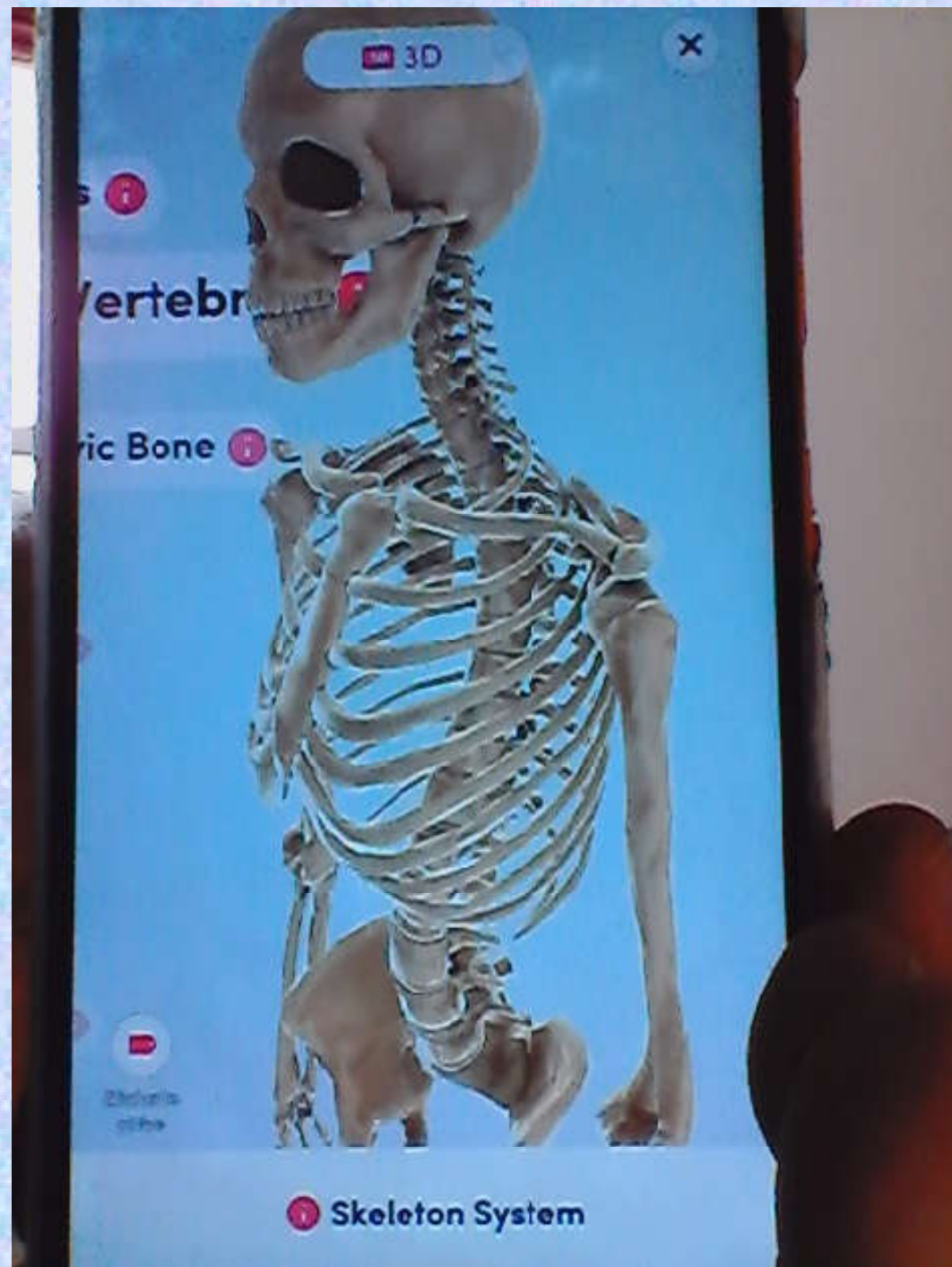


Il corpo umano

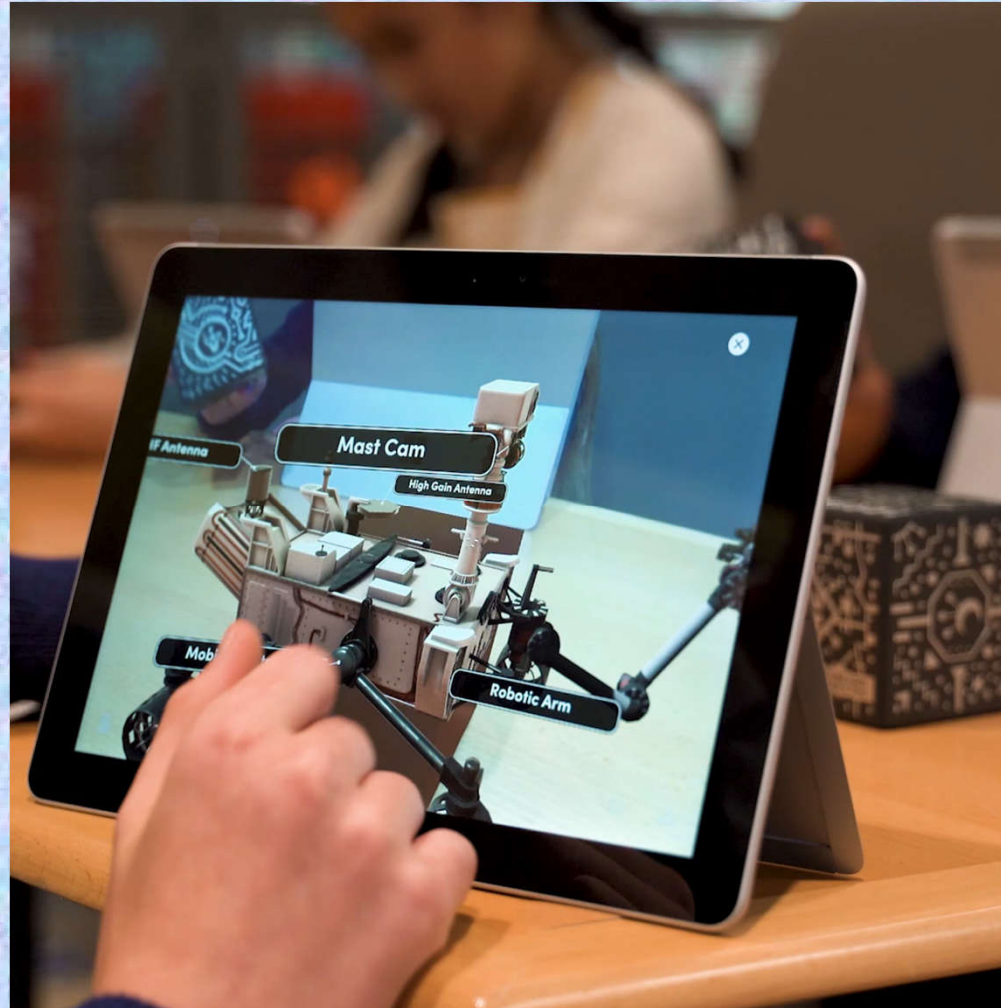


Il corpo umano



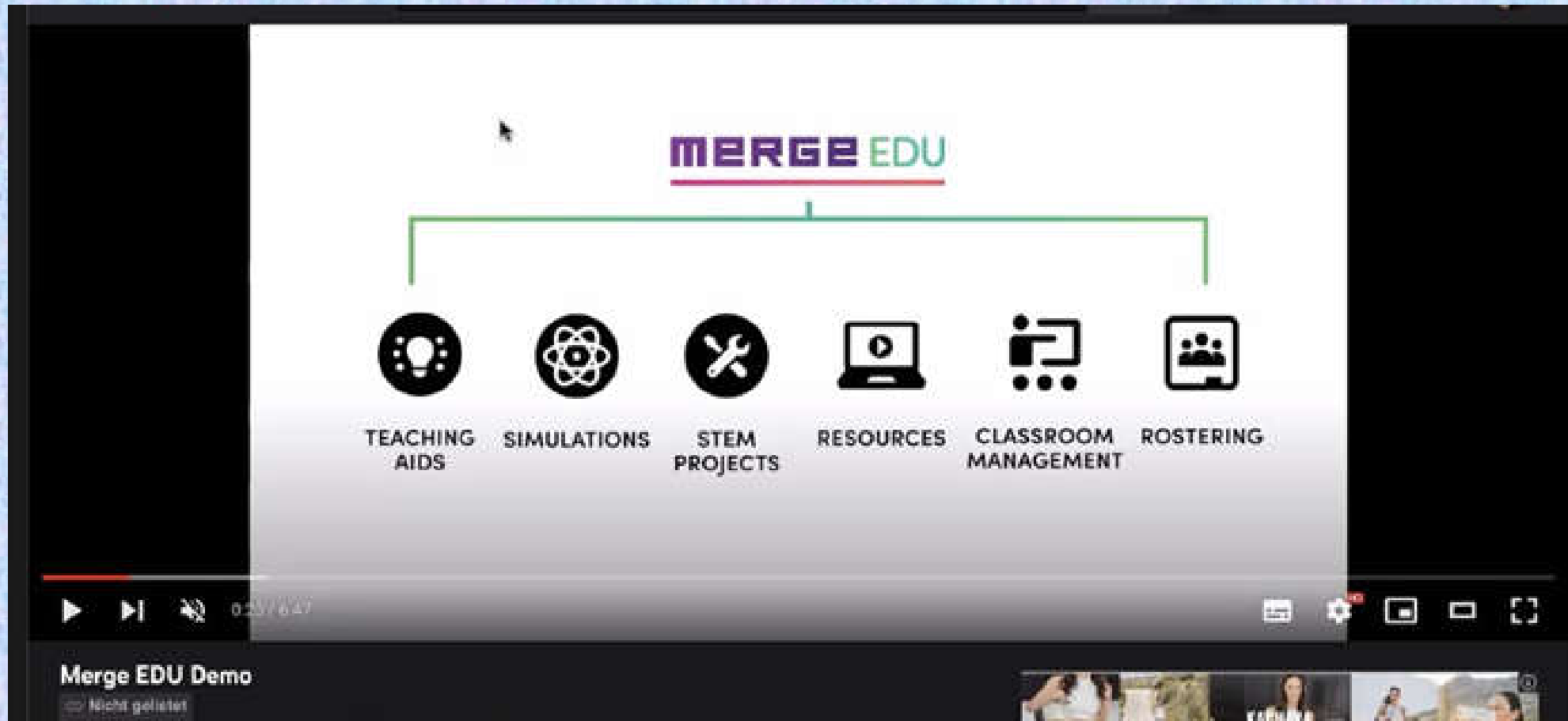


Beyond STEM class



<https://mergeedu.com/assets/video/beyondstemclass2021q4.mp4>

merged.edu: Insieme di mezzi didattici



merged.edu: Insieme di mezzi didattici

Cellula

Circolazione sanguinea

Costruzione delle città

Parti del computer



Cells



Circulatory System



City Builder



Computer Parts

Cretaceo

Cure dentali

Crescita del pulcino

Scheltro del dinosauro



The Cretaceous Period
Dinosauri



Dental Health
Edgar Allan Poe



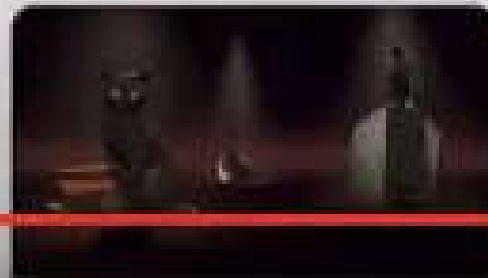
Development of a Chicken
Uova



Dinosaur Skeletons
Motori



Dinosaur



Edgar Allan Poe



Eggs



Engines

merge.edu: dinosauro nel giardino

MERGE.EDU

World Mode

Place simulations & objects in your world

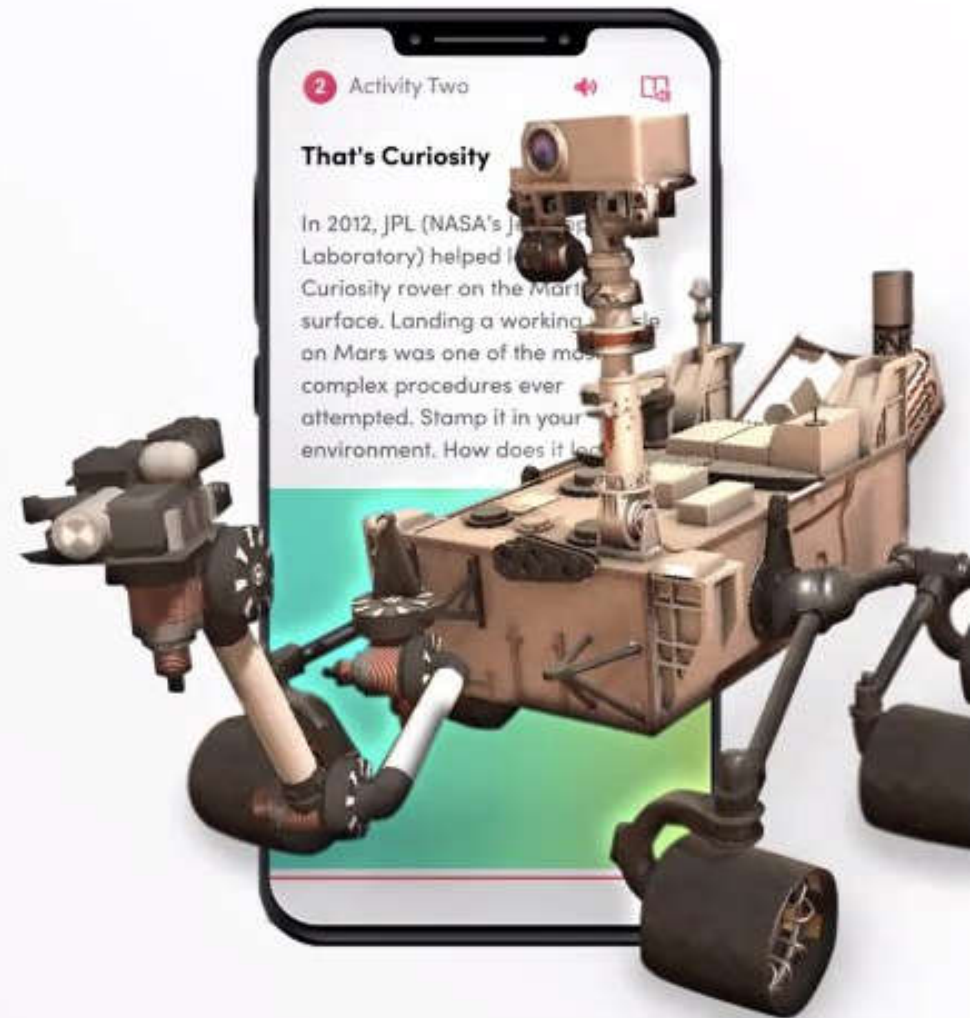


merged.edu: simulazioni scientifiche

MERGE.EDU

Powerful Science Simulations

- **Multi-sensory**, interactive simulations
- Explain complex topics more **easily**
- Engaging = better **retention**
- K-8 **standards aligned** activities
- Integrated **quizzes**



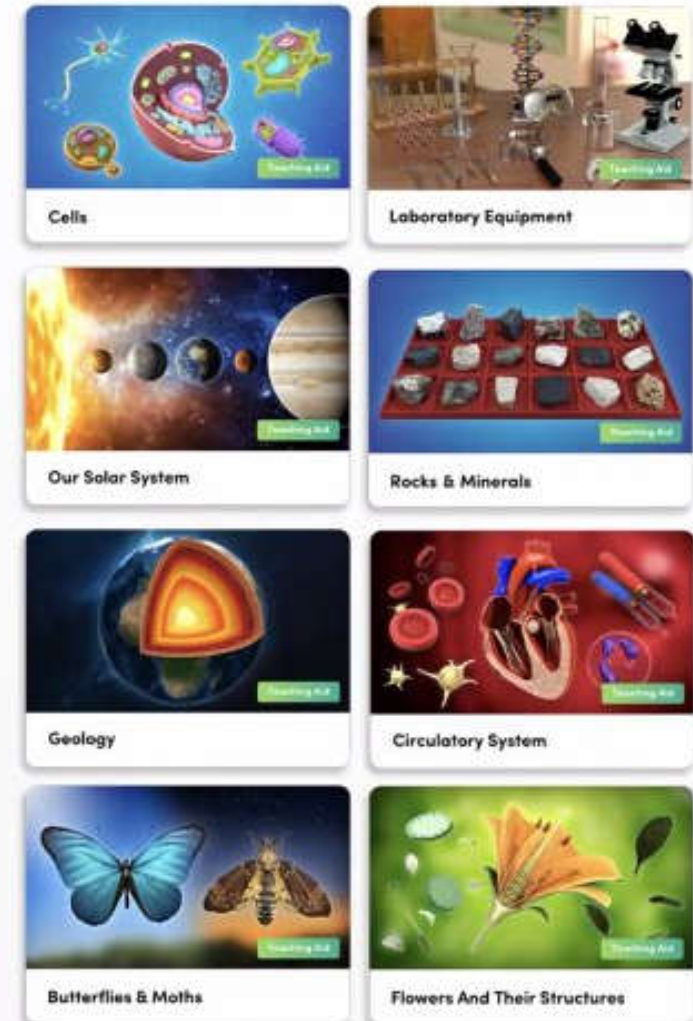
merged.edu: mezzi didattici digitali

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True-to-life Digital Teaching Aids

- **Viable** alternative to physical aids
- **Endless shelf** of teaching aids
- Students can access **anytime / anywhere**
- As **effective** as physical aids*

*Based on study done at UCSF Medical (see appendix)

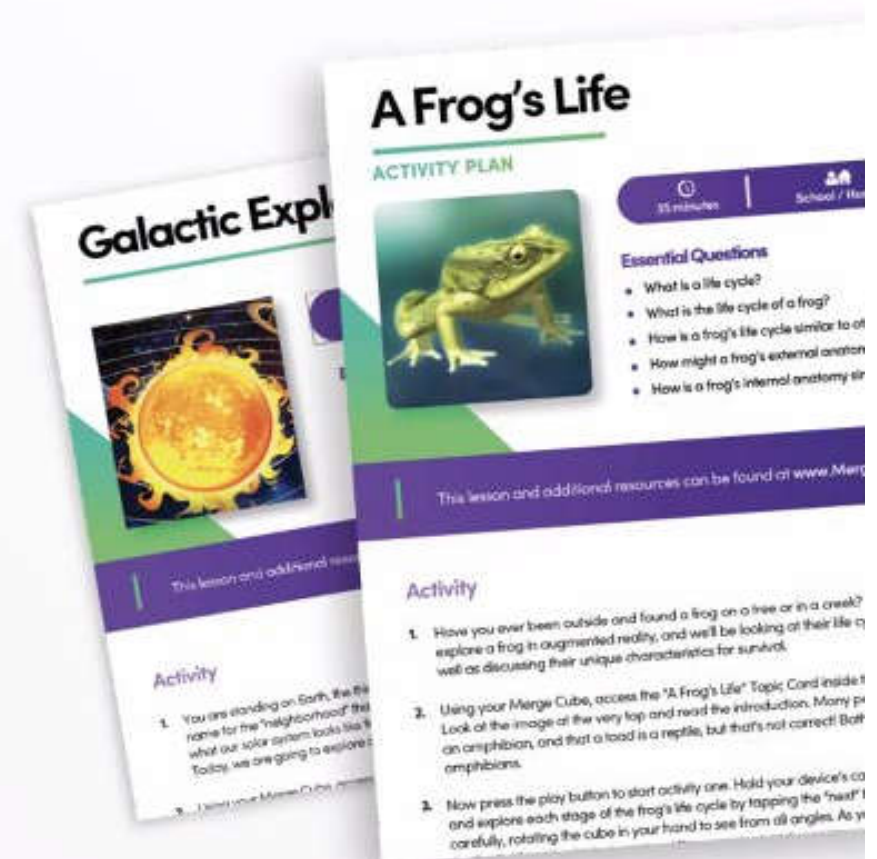


merged.edu: catturare attenzione

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Captivating Activities

- Usable for **remote, in-school or hybrid**
- Usable for **student-led or teacher-led**
- **Easy** to follow
- Curriculum **aligned**



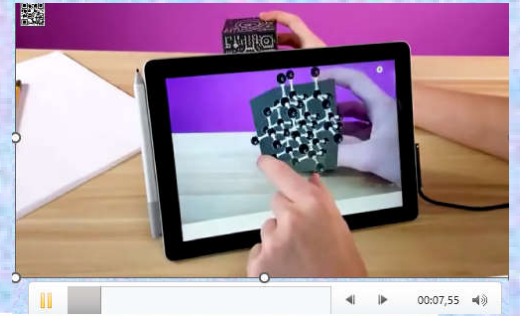
«hold the object and
immerge it in a real world»



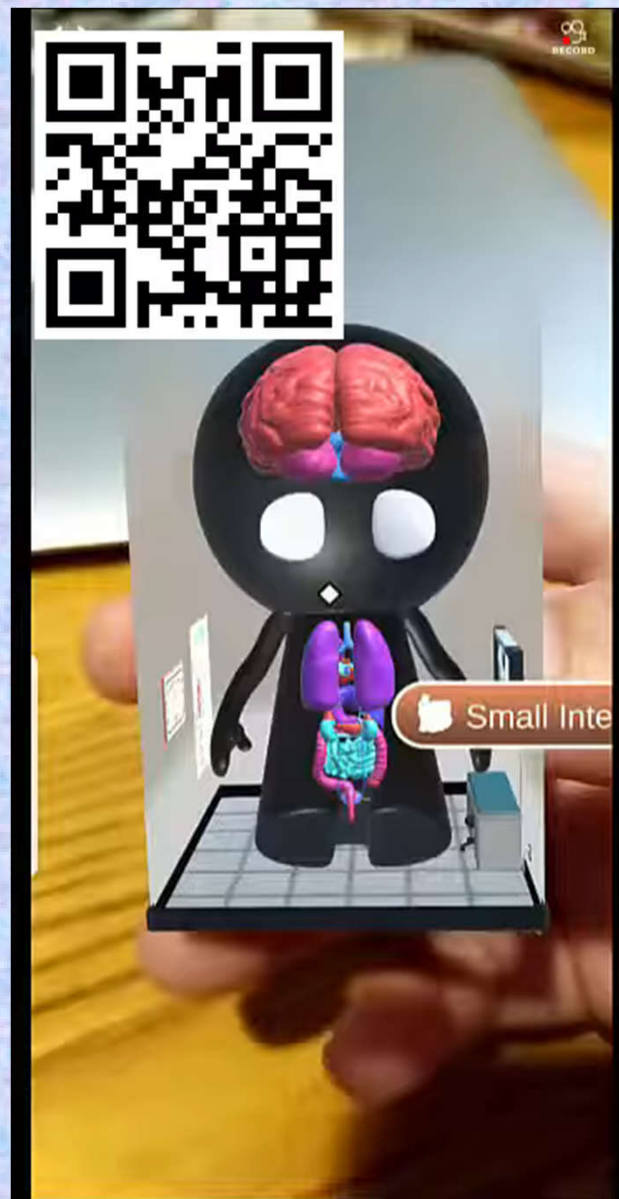
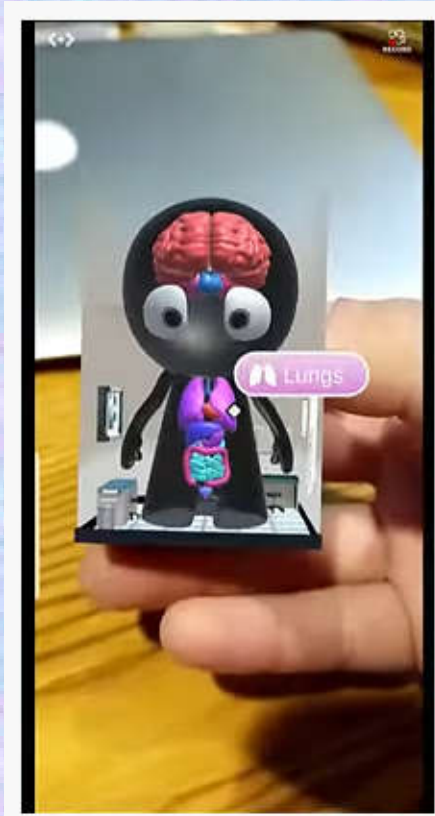
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<https://mergeedu.com/try-edu>

The merge cube



https://youtu.be/_sL1HfdVxg4



Anatomia del orsacchiotto

<https://www.youtube.com/watch?v=35xRM6t5pNI>

Vantaggi della AR

Come l'AR sta trasformando il settore dell'istruzione

L'esperienza AR sta prosperando come una tendenza significativa e si stima che entro il 2023 ci saranno 2,4 miliardi di utenti mobili di realtà aumentata in tutto il mondo. Tuttavia, c'erano solo 200 milioni di utenti nel 2015. È un eccellente afflusso di numeri che non può essere ignorato. Tuttavia, il mio interesse per questo articolo incombe sull'uso della realtà aumentata nelle applicazioni educative e di eLearning. Molti di noi sono a conoscenza solo del fatto che la realtà aumentata viene utilizzata in giochi mobili come Pokémon Go e piattaforme di social media come Snapchat. Tuttavia, l'istruzione è un altro spazio significativo in cui questa tecnologia può accendere le candele.

Un altro aspetto dell'esperienza AR è che include il 25% di realtà digitale e il 75% di realtà esistente. Significa che non sostituisce l'ambiente completo con il virtuale; piuttosto, integra oggetti virtuali nel mondo reale.

Con l'AR, l'educazione in classe può essere straordinaria e più interattiva, poiché l'AR può consentire agli insegnanti di mostrare esempi virtuali di concetti e aggiungere elementi di gioco per fornire supporto materiale ai libri di testo. Ciò consentirà agli studenti di imparare più velocemente e memorizzare le informazioni.

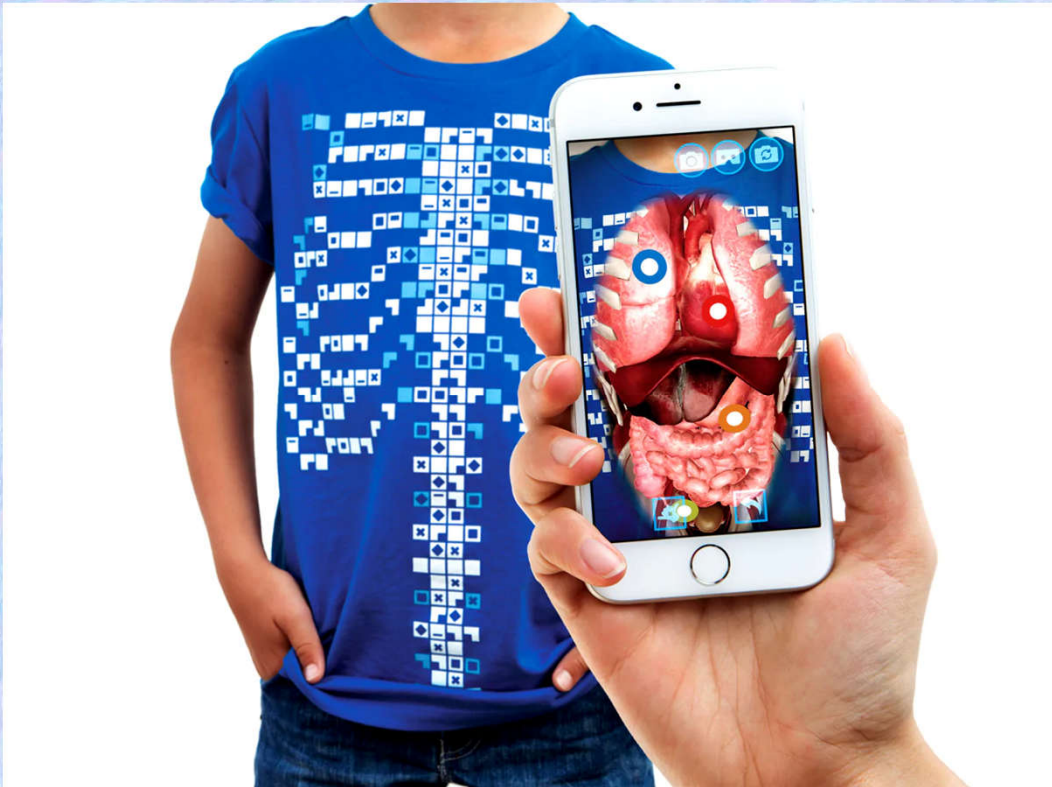
La memoria umana non dimentica facilmente le immagini.

Curioscope: Virtuali-tee

Virtuali-Tee

213 reviews

£19.99



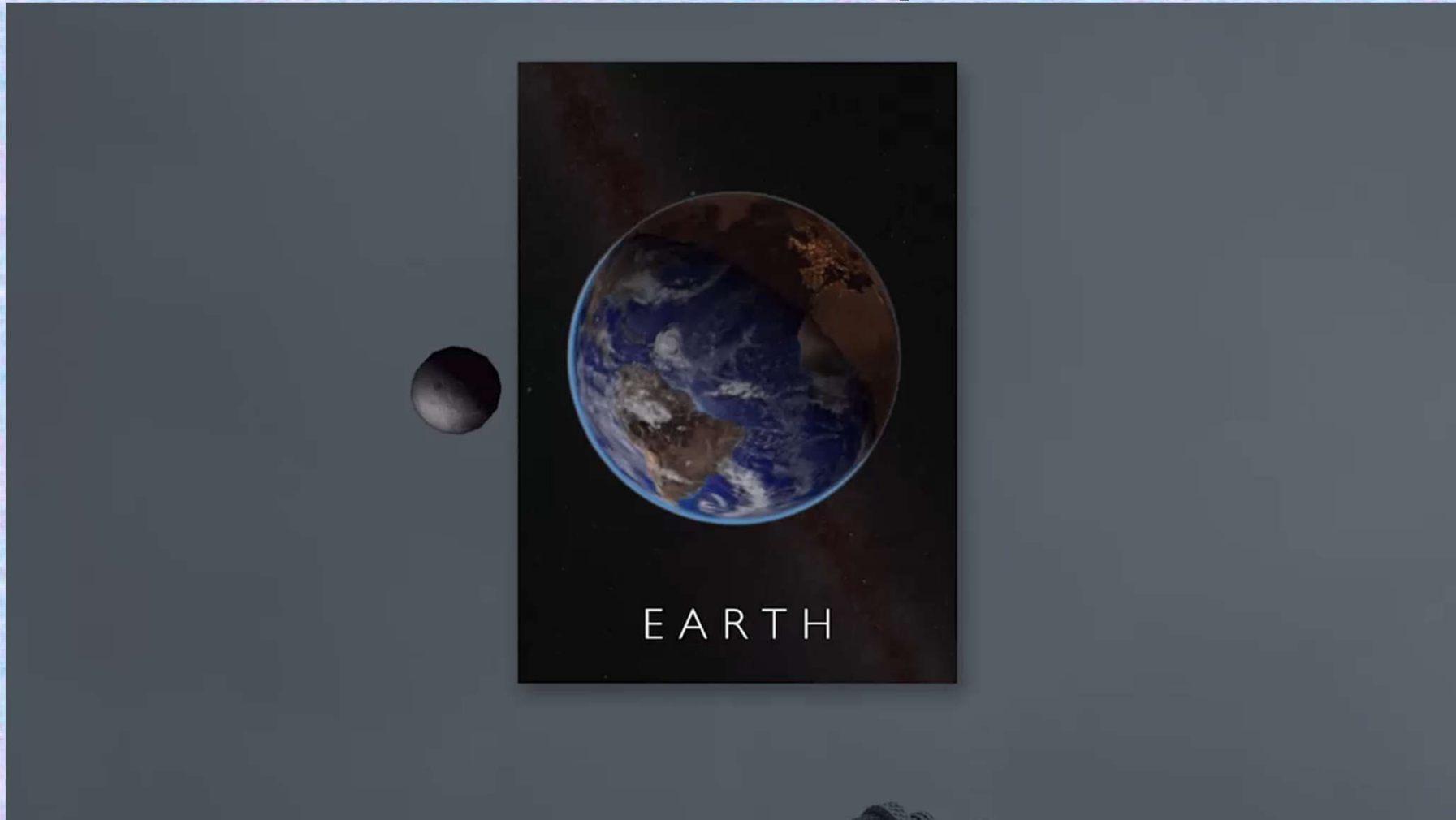
<https://www.curiscope.co.uk/>

Curioscope



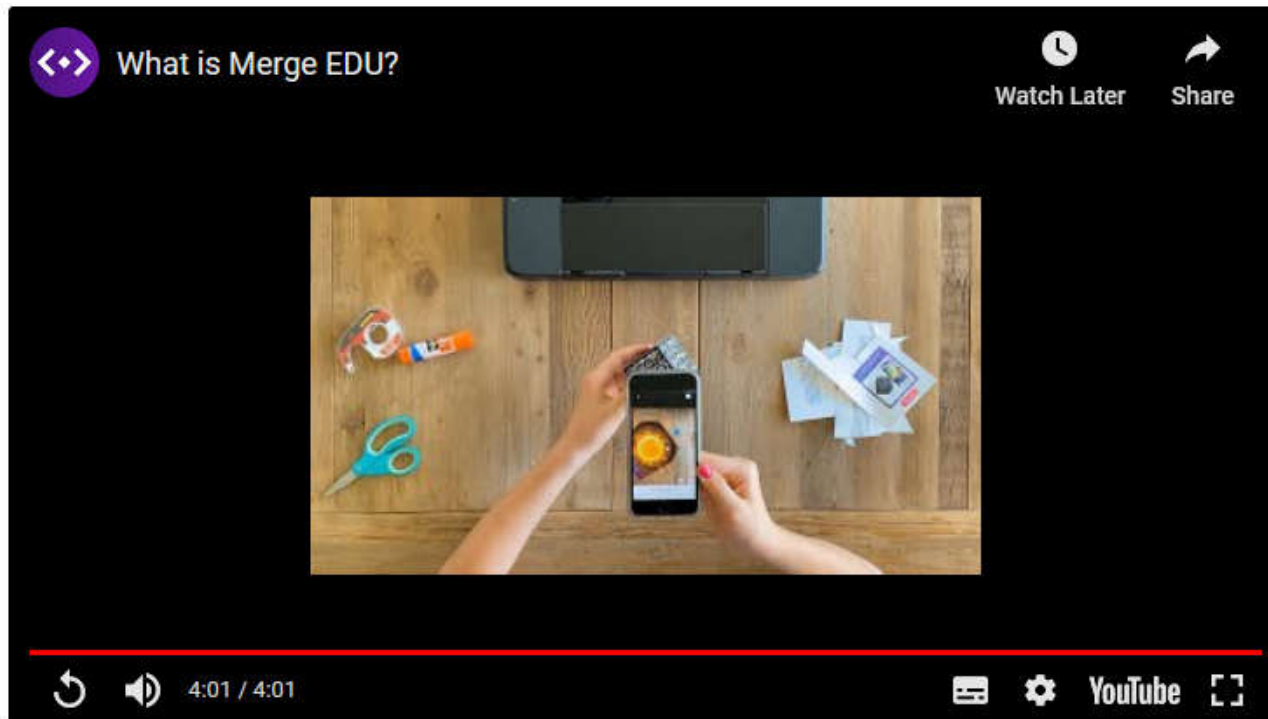
<https://www.curiscope.co.uk/>

Curiscope



https://www.curiscope.co.uk/?utm_source=Curiscope-US&utm_medium=Redirect&utm_campaign=Redirect
<https://www.youtube.com/watch?v=ENbt-hiPbig>

Lavoro a casa



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Try the only active learning platform designed for the award-winning Merge Cube: NGSS-aligned STEM content, AR teaching tools, immersive lesson activities, teacher dashboard and enterprise provisioning (student accounts, single sign-on, etc.)

Support

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Riassunto

- Realtà aumentata, diversamente dalla «realtà» virtuale, aumenta/ migliora/ cambia/ modifica/ migliora la nostra percezione del mondo esterno
- Comunque, RA richiede, da loro autori, le capacità di programmazione molto avanzate
- Per il momento solo un paio di «colossi» (Google, IKEA, Microsoft) riescono a proporre nuove applicazioni
- Nella lezione successiva diamo qualche esempio in più della RA, e la confrontiamo con RV
- Per il momento, l'offerta didattica della RA è molto inferiore alle risorse virtuali e multimediali presenti sul «mercato»
- I multimedia saranno tema della lezione numero 4, e alla intelligenza artificiale torniamo nella ultima lezione.