

Before covid - learning science in lab

Learning science in lab - discuss and analyse collected datas - reflect on the live experience (live the scientific method in practise as a researchers)





During and after covid - learning science ONLIFE

Experimentation and inquiry mixing online and offline activities, synchronous and asynchronous interactions



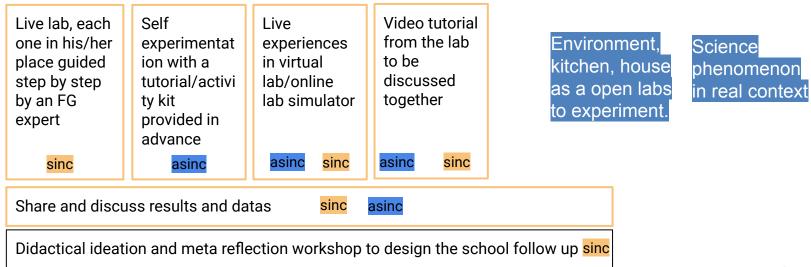


During and after covid - learning science ONLIFE

Digital tool and platform to enlarge inquiry opportunity

WITH TEACHERS

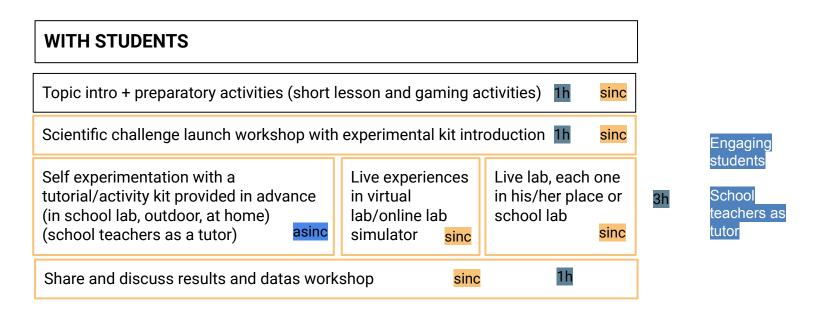
Topic intro + sharing of a common framework (short lesson + group workshop)sinc





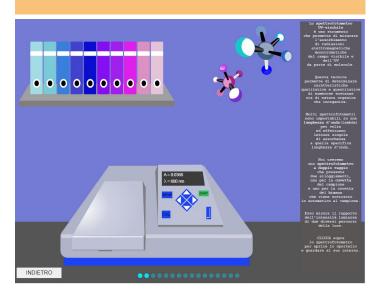
During and after covid - learning science ONLIFE

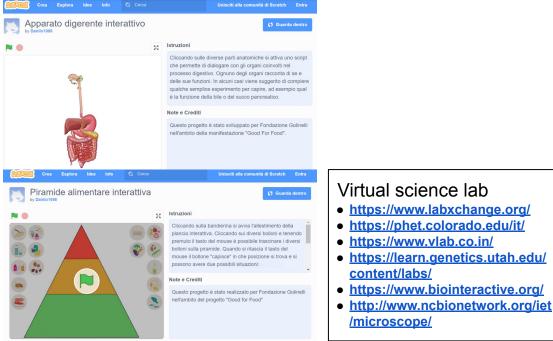
Digital tool and platform to enlarge inquiry opportunity





VIRTUAL LAB AND SIM





Virtual lab self produced with animatron

(spectrophotometer for protein analysis)

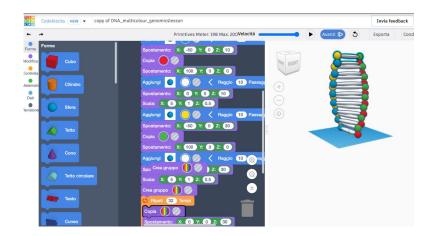
Virtual lab self produced with scratch

On digestive apparatus or food pyramid

Virtual lab repository Available for free



VIRTUAL LAB AND SIM



Simulation with Tinkercad

video link on growing plan following Fibonacci sequence





Conduct any simulation in 3D

Use CoSpaces Edu as a virtual science lab! As anything is possible within a CoSpace, it's the ideal place to conduct experiments and simulate anything virtually.

Watch video D

Simulation with CoSpaces

i.e on <u>solar system</u>, <u>3D setting for gaming and science</u> <u>exposition</u>



VIDEO TUTORIAL AND ANIMATIONs



Video tutorial in lab From "Agrifood: SDGs sustainability in lab"

Animation and science challenges From "Physics and inquiry challenges"

Video animation with a thematic issue

From "Good for food - food and environmental education"



LIVE LAB VIDEO SHOOTING



To lead teachers/students doing the experiment in their lab/school/outdoor To edit a video tutorial be provided in advance

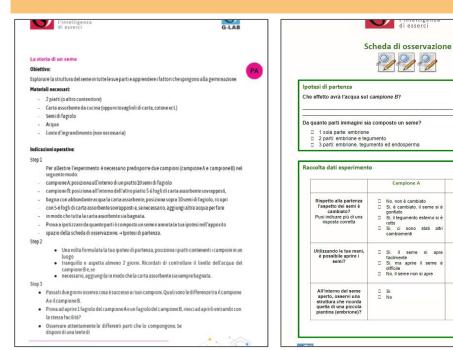


During and after covid - SCIENCE in the context





KIT FOR TEACHERS AND STUDENTS



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Statisvia Zaropeti	Stefania Zempeti	Sadavia Zavepeti 6 🐟

Campione B

No, non è cambiato

gonfiato

cambiamenti

facilmente

difficile

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D No

rotto

Si, è cambiato, il seme si è

Si, il tegumento esterno si è

Si, ci sono stati altr

Si, il seme si apre

Si, ma aprire il seme è

No, il seme non si apre

Toolkit collection (ie Kitchen science: focus on fermentation)

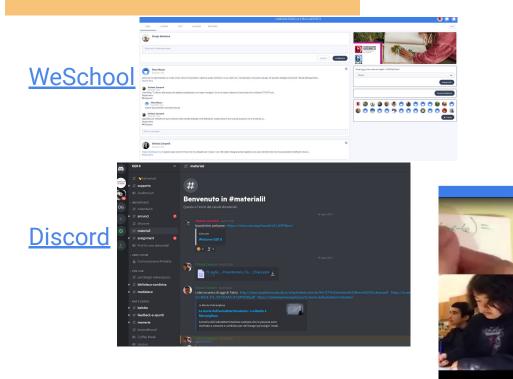
Activity kit provided in advance

Lesson plan + experimentation lab + student kit and collecting and observation templates

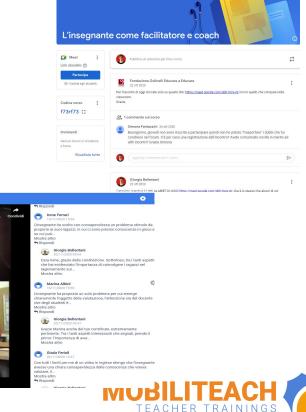


Virtual classes to share, interact...

ASYNCHRONOUS



Google Classroom



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SYNCHRONOUS ACTIVITIES

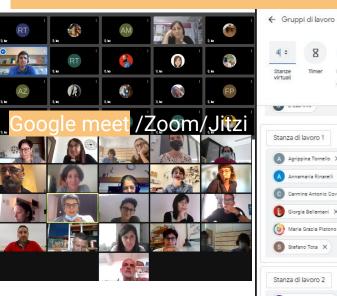
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Catia Cipolla X

Giacoma Ragusa 🛛 🗙

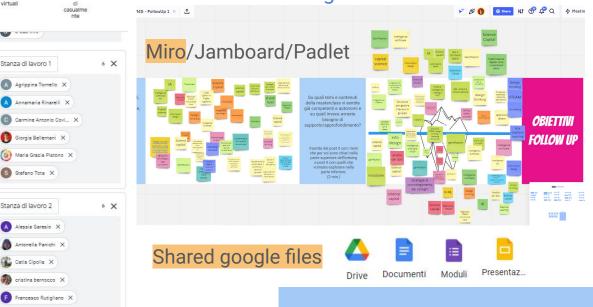
Distribuis

Cancella



Online meeting + Rooms for small groups workshops

SYNC & ASYNC WORKSHOP × Shared files and boards to share, visualize and elaborate thoughts and ideations







Monitoring

Interacting

Formative assessment

Gaming and motivation

Drive





=

Moduli

Presentaz...







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Mobiliteach Sectoral Hospitality and STEAM Cross disciplinary didactics **Third Teacher Training** Athens 15 -18 November 2021 **TEACHING SCIENCE THROUGH INQUIRY IN** EACHER TRAININ **A DIGITAL ERA** GIORGIA BELLENTANI FONDAZIONE GOLINELLI