

## **SUPSI**

# Digital educational escape rooms for Higher Education

Masiar Babazadeh & Luca Botturi www.school-break.eu







## Escape games & soft skills











## Escape games & subject matter





etc.



**Skills** 

Mental calculation, using formulae, reading (in a foreign language), ...

Using a microscope, hitting a target, etc.



Familiarize with instruments



Information retrieval

The periodic table, a compass, a software, etc.

Researching information on a book, online, in a dictionary, etc.



# Where is the learning?









## When shall we play it?

- To introduce new topics/concepts
  - E.g., Hack the Internet
- As pre-instruction assessment test
  - E.g., Kill Count Dracula
- As formative or self-evaluation
  - E.g., Forgers
- (as summative evaluation)

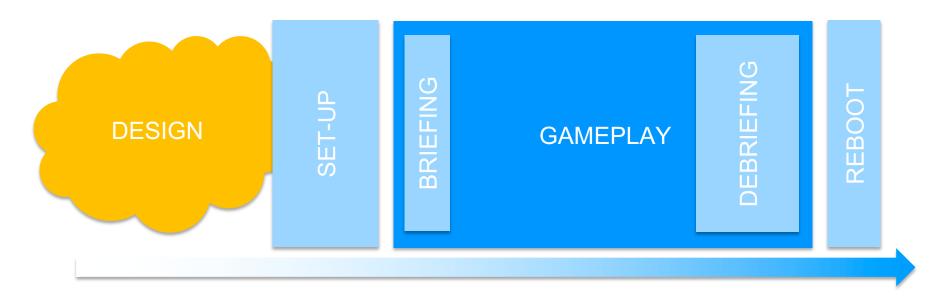


## What kind of learning?

- Actually, very memorable but little!
  - after all, it is a 1h game + 1h debriefing!
  - Be realistic!
- It is "dirty" learning
  - Learning in the game is seldom precisely conceptualized
  - Key learning cannot be in the foreground
- ... and this is why the debriefing is so paramount!
  - Emotions
  - Process assessment
  - Learning moments



# An educational escape room session





# Let's play!

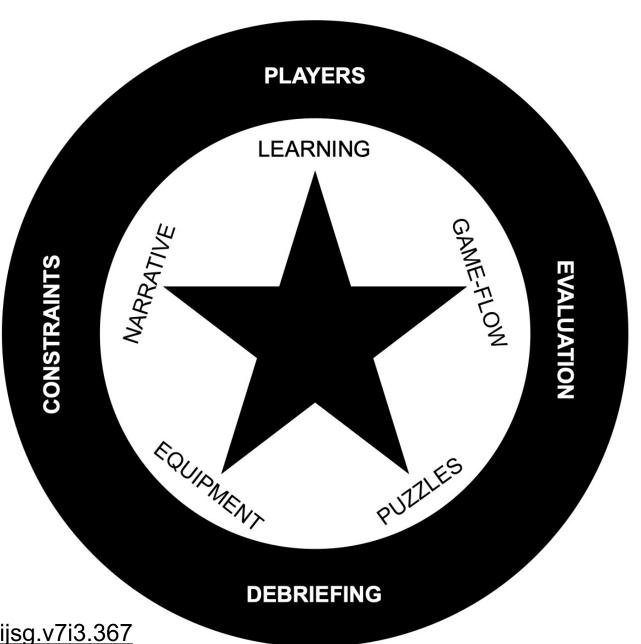
https://mediaescuola.wordpress.com/online-escape-rooms/

- Breakout rooms of 4-5 people
- Select one escape room
- Play!

You have max. 20 minutes!

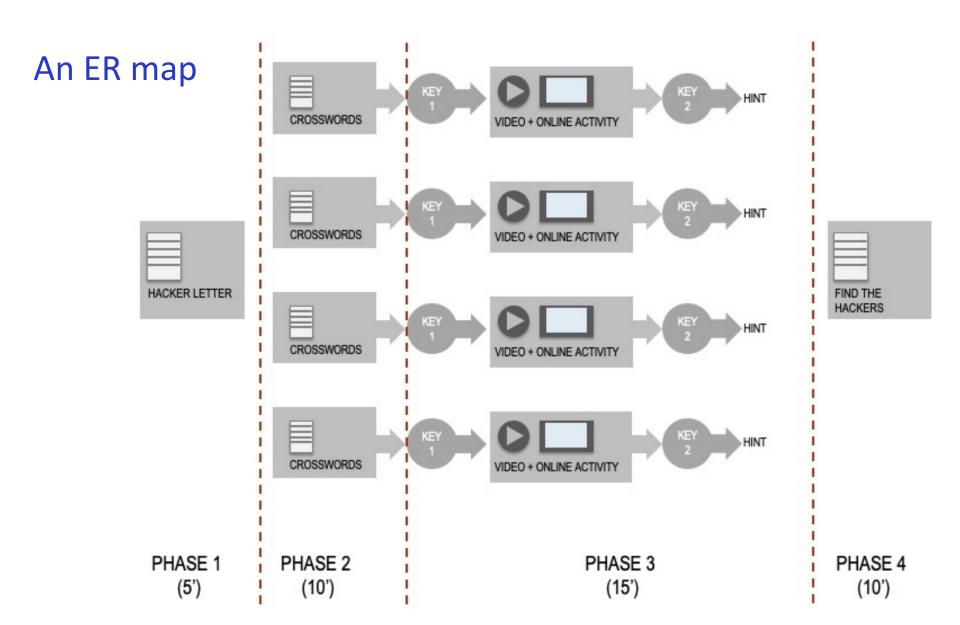


A design map
The Star Model



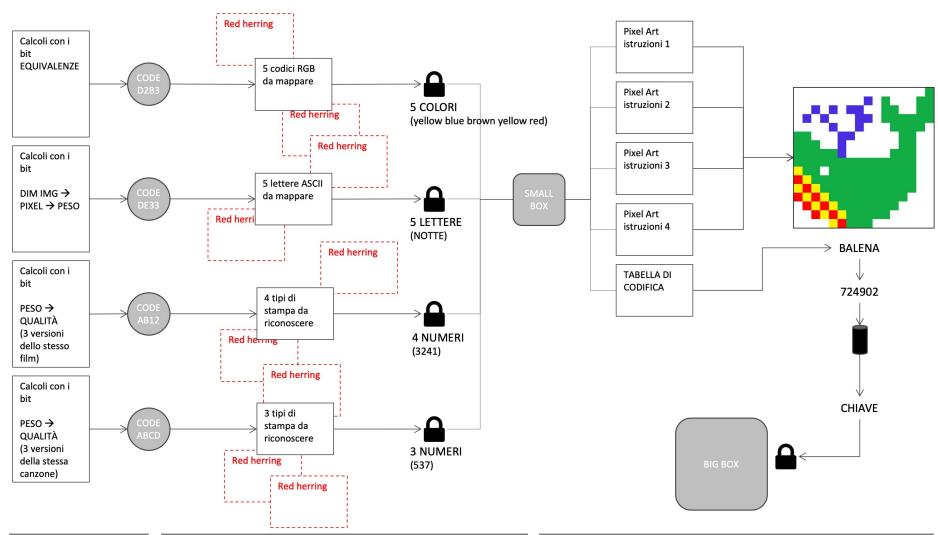
https://doi.org/10.17083/ijsg.v7i3.367







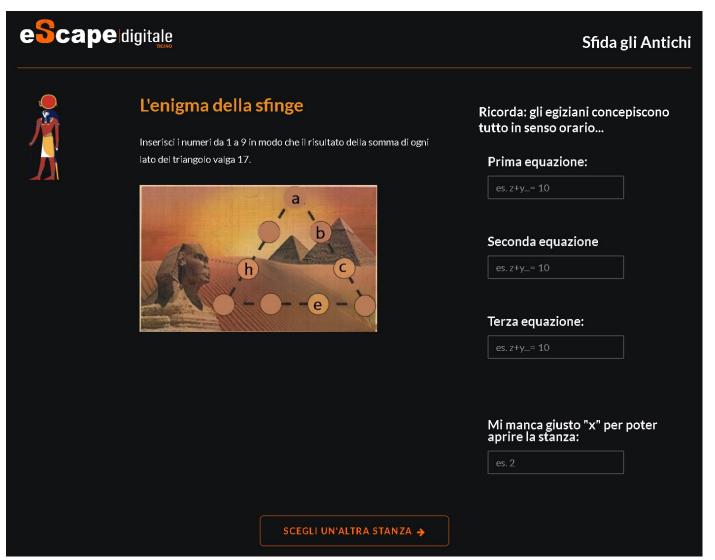
# Anothr ER map



2



## Educational escape rooms with escapedigitale.ch



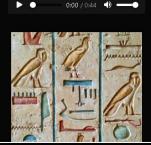




Hai decifrato la parola che non si legge nella

Risposta (approssima all'unità)

#### Messaggio iniziale per gli agenti



eScape digitale

Sfida gli Antich

Un geroglifico

Decifrate le due parti del geroglifico e rispondete alla domanda nascosta.

pergamena?

eScape digitale

Sfida gli Antichi

Sono il Dio dei



#### La Necropoli di Giza

Solo i più sapienti sanno della storia della piramide del figlio del grande faraone Cheope...

«Quanti cubi di granito aventi mediamente lo spigolo lungo 2,4 cubiti reali sono stati utilizzati per costruirla?»

Ascolta Ptah il saggio ed utilizza il modello in Geogebra per rispondere alla <u>domanda</u>.

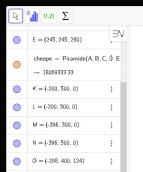
Se ti può essere utile: come aggiungere una funzione su GeoGehra

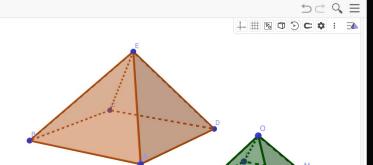
Qual è il volume di un cubo di granito? (approssima ai decimi)

es. 78.3

Numero di cubi? (approssima all'unità)

es. 132000







SCEGLI UN'ALTRA STANZA 🍑



## SchoolBreak Handbooks

Handbook 1: Using escape rooms in teaching



Handbook 2: Designing educational escape rooms



Handbook 3: Learning through escape room design



Handbook 4: Puzzles and other things to unlock



Handbook 5: Plot-Puzzle for Educational Escape Rooms Design

















## SchoolBreak EERs

#### Hack the Internet

Escape room developed by the Laboratorio tecnologie e media in educazione

Dipartimento formazione e apprendimento, SUPSI.

Switzerland

Teacher Guide ENG IT FR DE SPA

Teacher Kit ENG IT FR DE SPA

(for 10-13 year olders)

How does the Internet work?

#### Thymio

Escape room developed by the Laboratorio tecnologie e media in educazione
Dipartimento formazione e apprendimento, SUPSI.

Switzerland

Teacher Guide ENG

(for 10+ year olders)

Introduction to Thymio VPL

#### **Green Fuel**

Escape room developed by the Laboratorio tecnologie e media in educazione Dipartimento formazione e apprendimento, SUPSI.

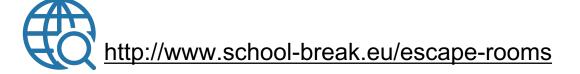
Switzerland

Teacher Guide IT

Teacher Kit IT

(for 10-15 year olders)

Information and fake news





## SchoolBreak EERs

#### No more walls

Escape room developed by the UOC Research Team, Faculty of Information and Communication Sciences.

Spain

Teacher Guide SPA ENG

Teacher Kit SPA ENG

(for 12-18 years old)

Borders and walls in Europe

#### Escape Inflation

Escape room developed by PH Freiburg –
Department of Economics
Education

Germany

Student Materials **ENG DE** 

Teacher Kit ENG DE

(for 16-19 years old)

Introduction to markets and inflation





## Commercial (online) ERs

- Ticino <u>https://escapedigitale.ch/</u>
- ZH <a href="https://zurich.adventurerooms.ch/onlineescaperoom">https://zurich.adventurerooms.ch/onlineescaperoom</a>
- Basel <u>https://www.myescapegame.ch</u>
- Spain <u>https://www.escaperoomdigital.com/</u>



## Educational escape room companies

- MyEscapeBox.ch
   https://www.myescapebox.ch/
- Breakoutedu
   http://www.breakoutedu.com
- Lock Paper Scissors (Design your own)
   https://lockpaperscissors.co/school-escape-games
- Breakout Box https://breakoutbox.org/
- The Escape Classroom
   https://www.theescapeclassroom.com/
- School Escape Rooms
   http://www.schoolescaperooms.co.uk/



#### Learn more...

- School Break http://www.school-break.eu/
- Scott Nicholson (CAN)
   http://scottnicholson.com/pubs/index.html
- Disruptive Media Learning Lab (UK)
   https://archive.dmll.org.uk/resources/tools/teaching-and-learning/educational-escape-room/
- EduScapes (UK)
   http://eduscapes.playthinklearn.net/
- Online escape room for preservice teachers (paper) <a href="https://www.learntechlib.org/primary/d/216209">https://www.learntechlib.org/primary/d/216209</a>



### **Contacts**

Scuola universitaria professionale della Svizzera italiana (SUPSI)
Dipartimento formazione e apprendimento
Laboratorio media e MINT

Locarno

Masiar Babazadeh masiar.babazadeh supsi.ch

Luca Botturi luca.botturi@supsi.ch