

MaFEA advices for schools starting with Future tools (29/02/2024)



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These advices are formed during the MaFEA-project that ended on 01/03/2024 and will be aging rapidly. It is a good start for schools that would like to start in 2024.

Visit our website www.MaFEA.eu to find lots of tutorials, lesson plans, inspiration list with apps, store list for apps, and much more. We concluded underneath advice at the end of an Erasmus+ KA220 project, what was 29/02/2024.



MaFEA advices for schools starting with VR (29/02/2024)

1. Investigate what “Apps” are available. → www.MaFEA.eu
2. Buy affordable goggles that are compatible with your Future apps.
 - a) Meta quest 2 or **Meta Quest 3** are the best gear for money.
3. Be patient, install an expert and train your teachers.
 - a) Point your teachers to the European EDU library for Future tools → www.MaFEA.eu

INFRASTRUCTURAL

- *A stable WiFi (6) coverage is essential.*
- *A teacher/class can handle 3 goggles if the classroom has enough square meters.*
- *Mirroring each goggles' view is key to success, connecting to screens is handy.*
- **ThingLink and Fectar** are a good start to build own content.

TIPS

- *Avoid direct sunlight, it can damage the sensors, don't play outside.*
- *There are stationary apps (sitting down) and room scale apps (standing and moving around).*
- *Battery usage time is narrow, so invest in a couple of booster batteries.*
- *Consider buying one Insta360 X3 camera to scan usable 3D content.*



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MaFEA advices for schools starting with MR or AR (29/02/2024)

- *MR as in Microsoft HoloLens (€4.300) and Apple Vision Pro (€ 3.600) are probably too expensive.*
- *devices as in Meta quest 3 (550€) has already MR functionalities build in for affordable money.*
- *However, MR is in February 2024 a good coaching tool that gives a lot of possibilities.*
- *Also, here apps are even more important than the gear.*

MaFEA advices for schools starting with robotics (29/02/2024)

- *humanized robots (€20.000) should only be considered for special purposes.*
- *in general, a robot package to build robots yourselves has more advantages.*
- *to learn programming, cheaper robots have the same coding structure!*
- *LEGO prime (360€) is a good choice for secondary education.*

MaFEA advices for schools starting with content creation tools (29/02/2024)

- ***Zappar** (380€) is probably to advanced/complicated for common teachers.*
- ***Fectar** (360€) is super easy to use and create AR content.*
- ***Thinglink** (1500€) is evolved and easy to use 360°-content however not cheap.*
- ***Dexr** is probably a nice tool for education that gives a dashboard for analysis. However, it was not yet tested by this project we expect it could be a great tool.*
- ***Insta360 X3 camera** (600€) is probably the best and most affordable device to create 360° photos and videos from self-owned gear, workshops, classrooms, etc.*