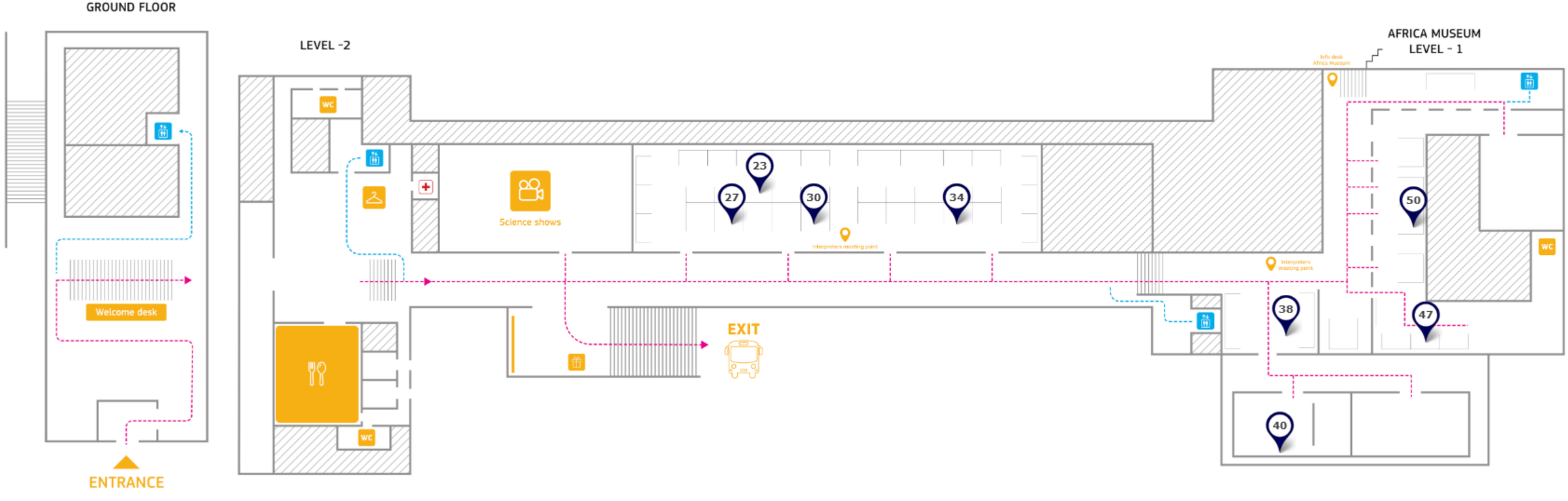
GROUND FLOOR
Welcome desk
ENTRANCE
LEVEL -2
WC
Science shows
23
27
30
34
Interpreters meeting point
EXIT
WC
AFRICA MUSEUM
LEVEL - 1
Info desk Africa Museum
Interpreters meeting point
50
WC
38
47
40

23. Seeing the Unseen: The Magic of Colours Without Colours

Where does colour come from?

For many things, like the clothes we wear or the ink we use, colours come from dyes and pigments.

But what if you could draw a rainbow without any paint?

Sometimes, nature creates colour through the way materials are ordered and structured rather than by adding pigments.

At our booth, discover the connection between beetle shells and 3D films, learn why certain butterfly wings always show the same colours but can appear different, and understand how liquid crystal displays (LCDs) work.

Put on your 3D glasses and explore the breathtaking beauty of nature’s structural colours.

Prepare to see the unseen!

Researchers: **Lawrence Honaker, Nicolò Alvisi, Jan Lagerwall**

27. Fuel Your Body and Mind!

Did you know your blood sugar follows your sense of time rather than the clock?

Or that different diets can distinctly impact your behavior?

We are Evita, Davide, and Alex—three neurobiochemistry enthusiasts ready to guide you through the fascinating connections between food, the brain, and behavior.

Join us on a fantastic food adventure!

Take part in an interactive shadow puppet show that reveals how nutrition influences energy, focus, and mood.

Step into the role of a surgeon to connect brain areas with behaviors, and "inject" food dyes into plastic mouse brain models to learn the lab techniques we use to study these effects.

For board game lovers, don’t miss our Game of the Goose, where you’ll journey through the brain’s microcosm to uncover its building blocks and their metabolic functions.

Together, we’ll explore how nutrients transform into the energy that fuels brain activity and enhances your overall performance.

Let’s unlock the secrets of the brain, one bite at a time!

Researchers: **Evangelia Kyriakidou, Davide Passaro, Alexandre Carrea**

30. Artificial Intelligence and Virtual Reality as Guardians of the Past

Did you know that Artificial Intelligence (AI) is revolutionising the way we preserve cultural heritage?

Come and see how AI identifies damaged areas in historical buildings, helping us repair them before the damage becomes irreversible.

Put your skills to the test in a fun game where you compete with AI to spot cracks or broken tiles in buildings - do you have what it takes?

Then step into the next level of discovery: walk through historic buildings in virtual reality and search for damaged parts of these magnificent artifacts.

With 3D models on mobile devices, you'll learn how cutting-edge technology helps us protect our history and ensure future generations can enjoy these extraordinary sites.

Join us in preserving the past for the future!

Researchers: **Mayank Mishra, Narges Karimi, Mohammad Sheikh Hassani**

34. Hey Mr. Satellite—Let’s Have a Talk!

"Ugh, I can’t hear you...

Wait, let me try… Nope, still no." Bad cell reception can be so frustrating!

But who can help?

You guessed it: Mr.

Satellite!

Visit our booth to discover how satellites work and how they assist us in our daily lives, from Earth observation to telecommunication.

Get hands-on by touching and building life-sized satellite models while exploring their technology and functionality.

We’ll also demystify the role of antennas in satellite communication through a fun analogy with the theremin.

Don’t miss our live Demonstrator to see how satellites send and receive radio waves.

Ready to have a chat with Mr.

Satellite?

Researchers: **Giulio Orlando, Aymeric Cailleux, Alessandro Mastropietro, Adan Simon**

38. Dark Lab: Glow-in-the-Dark Plants

Just like us, plants can get sick.

But unlike us, it’s not always easy to see what’s happening inside them, making it harder to understand and help them.

That’s about to change!

At our booth, you’ll discover how creating unique glow-in-the-dark plants can help us see inside plants in a whole new way.

A small warning: to fully experience this, you’ll need to step into a completely dark room, illuminated only by the plants—and the bright young minds exploring this fascinating science.

Researchers: **Mike Karampelias, Amel Yamoune, Anita Birosikova, Dan Nedved, Despina Gkeka**

40. From Clay to Script: Discover Ancient Cyprus!

Step back in time and watch Ancient Cyprus come to life at this magical booth.

Dive into the region's rich history as you craft clay figurines inspired by ancient Cypriot human or animal prototypes.

Worried your horse might end up looking like a giraffe?

Don't fret—our team is here to guide you!

Prefer a different challenge?

Try writing your name in the mysterious ancient Cypro-Syllabic script.

Whatever activity you choose, you can take your creations home to share your newfound knowledge and artwork with family and friends.

This blend of creativity, history, and hands-on interaction guarantees an unforgettable experience for students, teachers, and anyone curious about the past.

Researchers: **Artemis Georgiou, Anna Georgiadou, Cassandra Donnelly, Constantinos Prastitis**

47. Science in the Air: Uncovering Lung Secrets!

Ever coughed up a little slime ball?

Yuck!

But did you know it plays a crucial role in protecting your lungs?

At the same time, it can make it harder for medicine to reach the parts of your lungs that are sick.

Get ready to dive into this fascinating organ and discover the secrets of mucus, cilia, and drug design for lung diseases.

Our passionate team of chemists, physicists, and biologists will guide you through interactive activities—dig your hands into mucus, or experiment with our lung-mimicking microfluidic system.

Join us for a hands-on journey into the incredible science of lung health and medicine!

Researchers: **Marine Le Goas, Natalia Ortiz Silva, Charles Paul Moore, Alice Briole**

50. Exploring the Power of Plasma: From Science to Innovation

You've probably learned about the three states of matter—solid, liquid, and gas—but did you know there's a fourth: plasma?

Dive into the fascinating world of plasma at our booth!

Play with a glowing plasma ball, create your own plasma-inspired art, and discover how scientists are harnessing plasma to fight harmful cells like cancer.

Witness how plasma can transform surfaces in extraordinary ways, revolutionizing medicine and science.

And for Star Wars fans, don't miss this thrilling plasma-powered science adventure with a galactic twist.

May the force (of plasma) be with you!

Researchers: **Pradeep Murugesan, Marinus Veldhuizen, Ritu Zende, Agnieszka Ossowska**