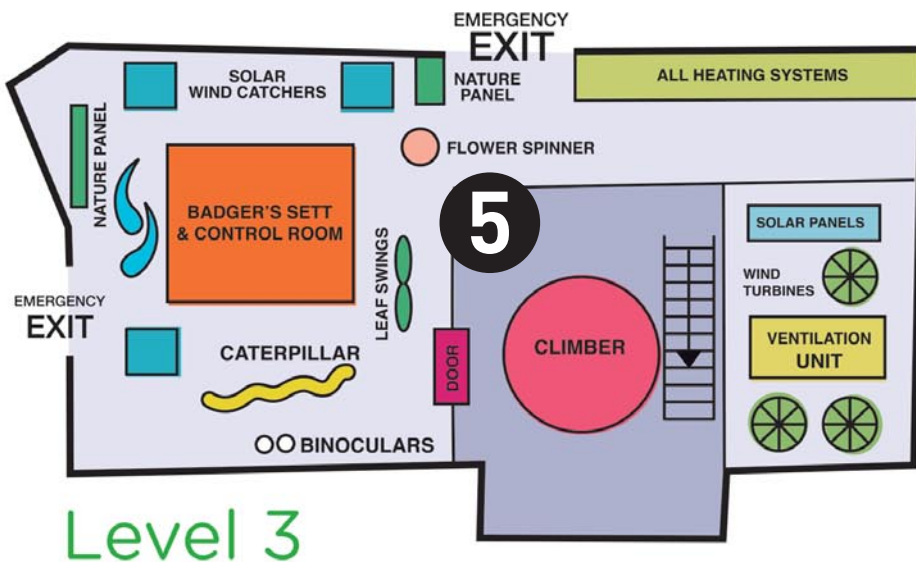
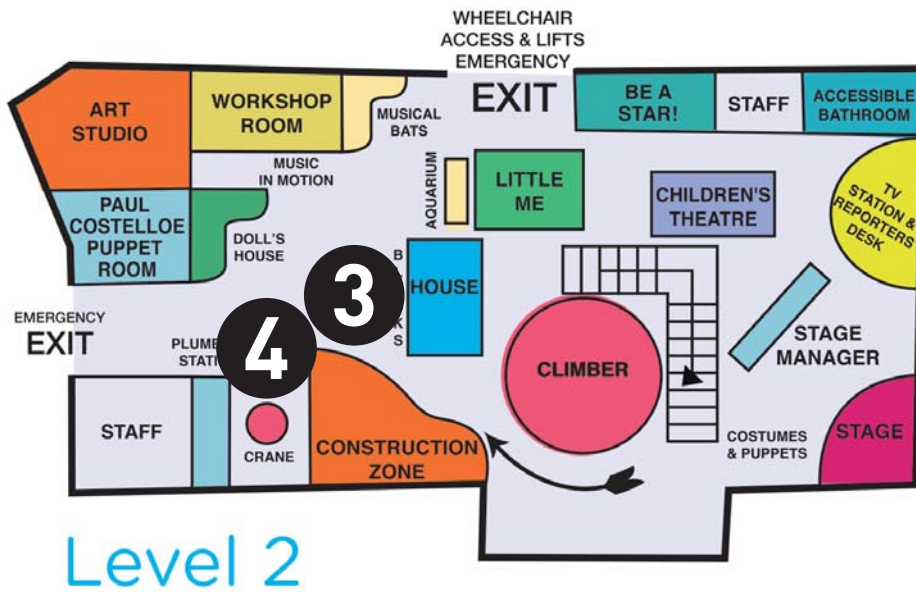
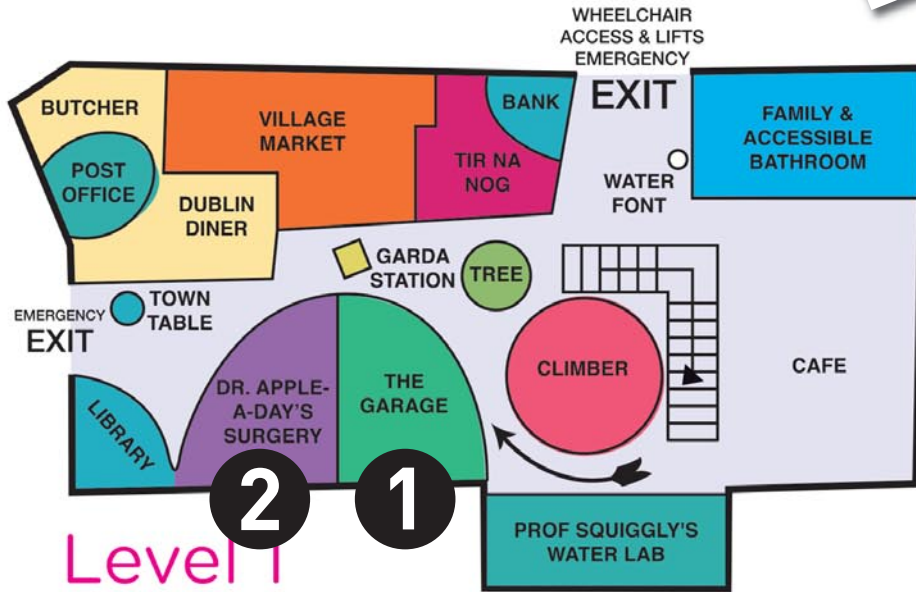


# IMAGINOSITY TRAIL



# Imaginosity Trail Questions

## Point 1 – The Garage

Take the Audi A1 for a test drive! Now you can be like the Audi Engineers and design your own car! Go to the Car Design Desk. You can select which engine, tyres, and other features you would like your car to have.

**Q. Which features help the car run most efficiently?**

## Point 2 – Doctor Appleaday's Surgery

Biomedical Engineers create technology and tools that help doctors understand how our bodies work and help to make us better when something goes wrong. Go to the x-ray station in the Doctor's Surgery.

**Q. What do x-rays help you see that are inside your body?**

Go to the Heart Rate Drum in Doctor Appleaday's Surgery.

**Q. Can you measure how many times your heart is beating per minute?**

## Point 3 – Our Building: from inside to out

When building the walls for Imaginosity, the Structural Engineers decided to create a special layered shell to the building that helps keep the temperature in the building just right! Look at the 'Cut Away Building Display'.

**Q. What helps keep our building warm when it's cold outside?**

Now you can design a building too! Go to the 'Design a House' computer and see how your building choices can affect the environment and the people who live there.

## Point 4 – The Crane

Engineers also design machines that help us to build houses, museums, and other buildings. Large cranes used on building sites

can be 60 stories high! The Imaginosity Crane can move up and down, side to side, or back and forth. Take the Imaginosity Crane Challenge:

**Q. Can you use the crane to lift bricks up to the Construction Zone Platform?**

**Q. How tall can you build your brick tower?**

## Point 5 – Roof Garden

There are lots of special features of the roof garden designed by engineers which use recycled materials and sustainable technology.

**Q. Can you guess what our roof is made from?**

Hint. They can usually be found on your feet and come in all shapes and sizes. Fill in the blanks to find out

  UNN     G S        S

Solar Panels on the roof collect heat from the sun's rays and warms the water in the pipes behind the collection panel. The wash hand basins in Imaginosity use this sun-generated hot water.

**Q. Can you find our Solar Panels?**

Our Wind Catchers on the roof provide fresh air to the rooms below.

The wind provides fresh air naturally to the rooms below this is called natural ventilation.

**Q. Can you draw our windcatchers?**

There are wind turbines mounted on the roof of our building. Our wind turbines are a spiral shape mounted on top of a pole and scoop the wind, which in turn spins them around. This spinning motion turns the magnetic dynamo in the turbine which generates energy. This energy powers lights in the building.

**Q. How many windcatchers can you see?**