



## CERNLAND QUIZ SHEET

This activity sheet is to be completed alongside 11 of the 13 games and activities available at [www.cernland.net](http://www.cernland.net)

Answer each question on this sheet correctly and show them to a teacher to earn 3 Children's University stamps.

### **Powers of Ten:**

Q. What is the Nucleus and at what scale is the size?

### **The Grid Computer Centre:**

Q. How much data per second do the four experiments of the Large Hadron Collider create?

### **LHC Control Room:**

Q. What are the three ways in which the LHC collides particles?

### **Totem:**

Q. What are the names of the 2 spring-shaped elementary particles on the totem spin machine?

### **Where's the Scientist:**

Q. What do experimental physicists build at CERN? What do these produce?

**Antimatter Quiz:**

Q. What is the difference between matter and antimatter?

**Worms in the LHC:**

Q. What are the modules called that the charged particles collide with in the LHC?

**Microboy Theory Building:**

Q. How many of each particle do you need to build the element Beryllium?

**Superbob:**

Q. How far underground is the LHC installed and how long is it?

**Alice in Wonderland:**

Q. How Many years did it take for the Universe to cool down enough for hydrogen and helium to form?

