

**Team**

**Rank**



## ***Fermi Questions***

- |    |  |                                 |    |
|----|--|---------------------------------|----|
| 1  | What is the total mass of medals won by Team GB in the 2012 Olympics and Paralympics?  | <input type="text" value="2"/>  | kg |
| 2  | How long does it take for a radio signal to reach the Voyager spacecraft at the edge of the Solar System?                        | <input type="text" value="5"/>  | s  |
| 3  | What is the mass of the Milky Way?   | <input type="text" value="42"/> | kg |
| 4  | What is the kinetic energy of a Virgin Pendolino train travelling at 200 km/h?   | <input type="text" value="9"/>  | J  |
| 5  | What is the temperature of the surface of the Sun?   | <input type="text" value="4"/>  | K  |
| 6  | What is the electrical power output of the radioisotope thermoelectric generator (RTG) powering the Curiosity rover?             | <input type="text" value="2"/>  | W  |
| 7  | How old is the Earth?  | <input type="text" value="17"/> | s  |
| 8  | What is the average separation of oxygen molecules in the air that you are breathing?  | <input type="text" value="-8"/> | m  |
| 9  | How many molecules are there in a rain drop?   | <input type="text" value="21"/> |    |
| 10 | What is the power capacity of the offshore wind farm in Liverpool Bay?   | <input type="text" value="8"/>  | W  |
| 11 | How many bits can a standard DVD hold?   | <input type="text" value="11"/> |    |
| 12 | By how much does the water flowing over a 100 m high waterfall heat up if its potential energy is converted into thermal energy? | <input type="text" value="-1"/> | K  |
| 13 | How many LPO mugs would fill CTL Lab 4?  | <input type="text" value="6"/>  |    |
| 14 | How many people were in The Beatles?   | <input type="text" value="1"/>  |    |