



**Team**

**Rank**

## Fermi Questions

1	What is the kinetic energy of the International Space Station in orbit around the Earth?	13	J
2	How far is Pluto from the Sun?	13	m
3	How many sheets of A4 paper would be needed to cover the surface of the Earth?	16	
4	What is the mass of a grain of sand?	- 7	kg
5	How many neutrinos are emitted from the core of the Sun in one second?	38	
6	What is the wavelength of the peak intensity in the cosmic microwave background radiation?	- 2	m
7	What is the mass of a buckminsterfullerene (aka 'buckyball') molecule?	- 24	kg
8	What is the force of electrostatic repulsion between two protons that are just touching each other?	2	N
9	What is the temperature at the core of the Earth?	4	K
10	How strong is the Earth's magnetic field at the Earth's surface?	- 4	T
11	How much energy is released in a supernova?	44	J
12	How old is the Earth?	17	s
13	What is the rate at which data is flowing across the whole of the internet?	14	bits/s
14	How many people were in the Beatles?	1	