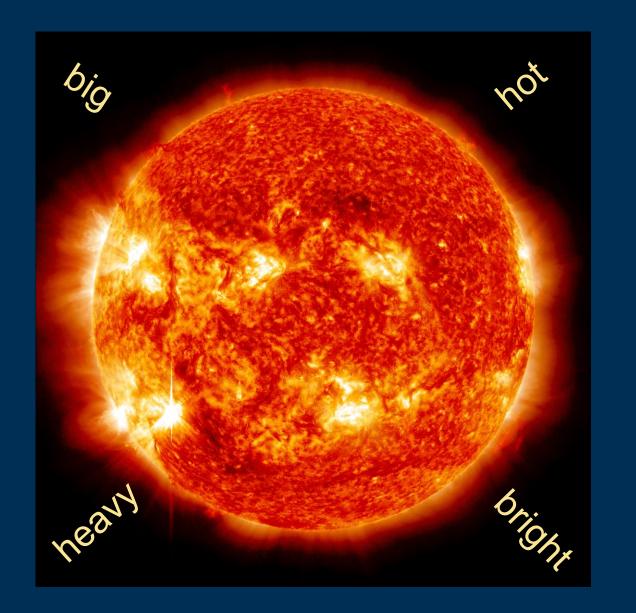


**Teachers' Pack** 

Magnificent Magnets & Cool Currents

# The Sun

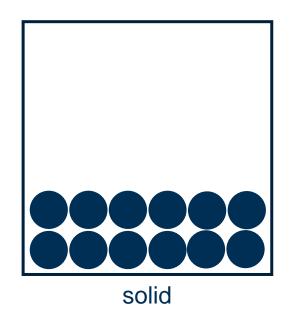


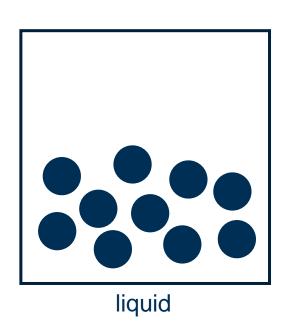


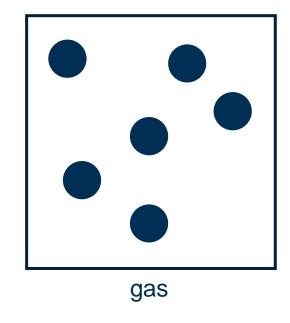
... far away

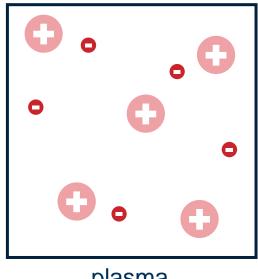
### **States of matter**







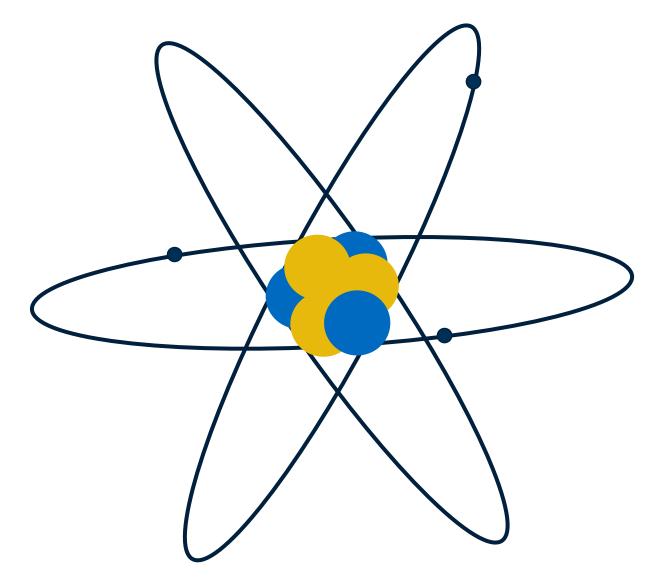




plasma

# An atom







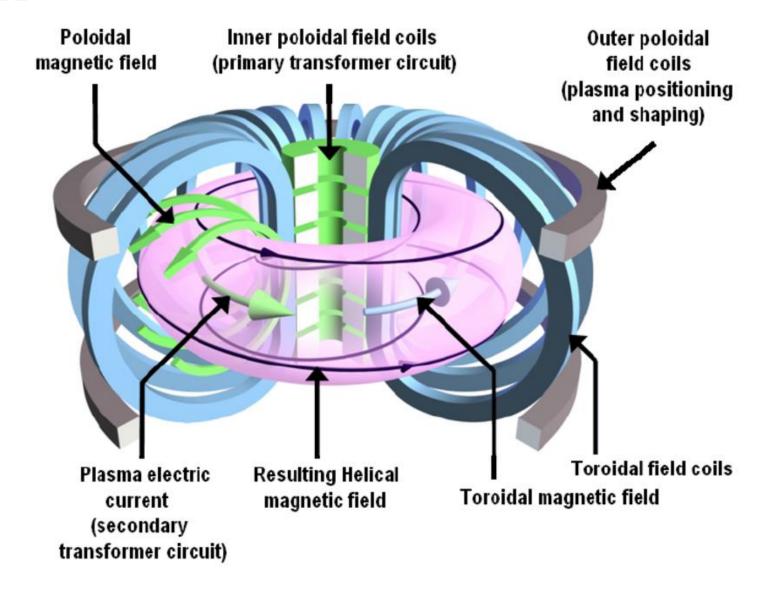
### electrons



nucleus

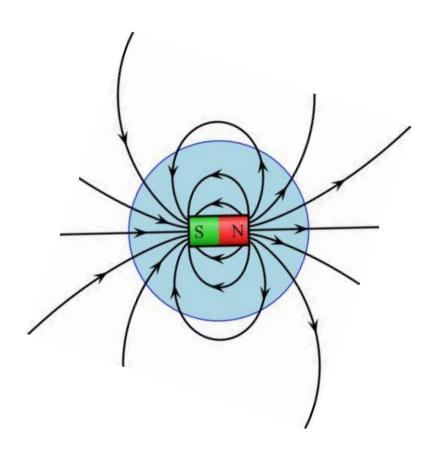
#### **Tokamak**

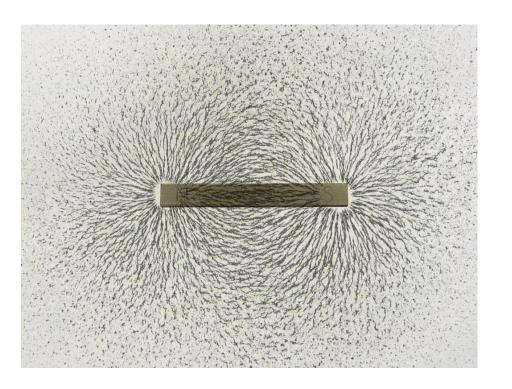


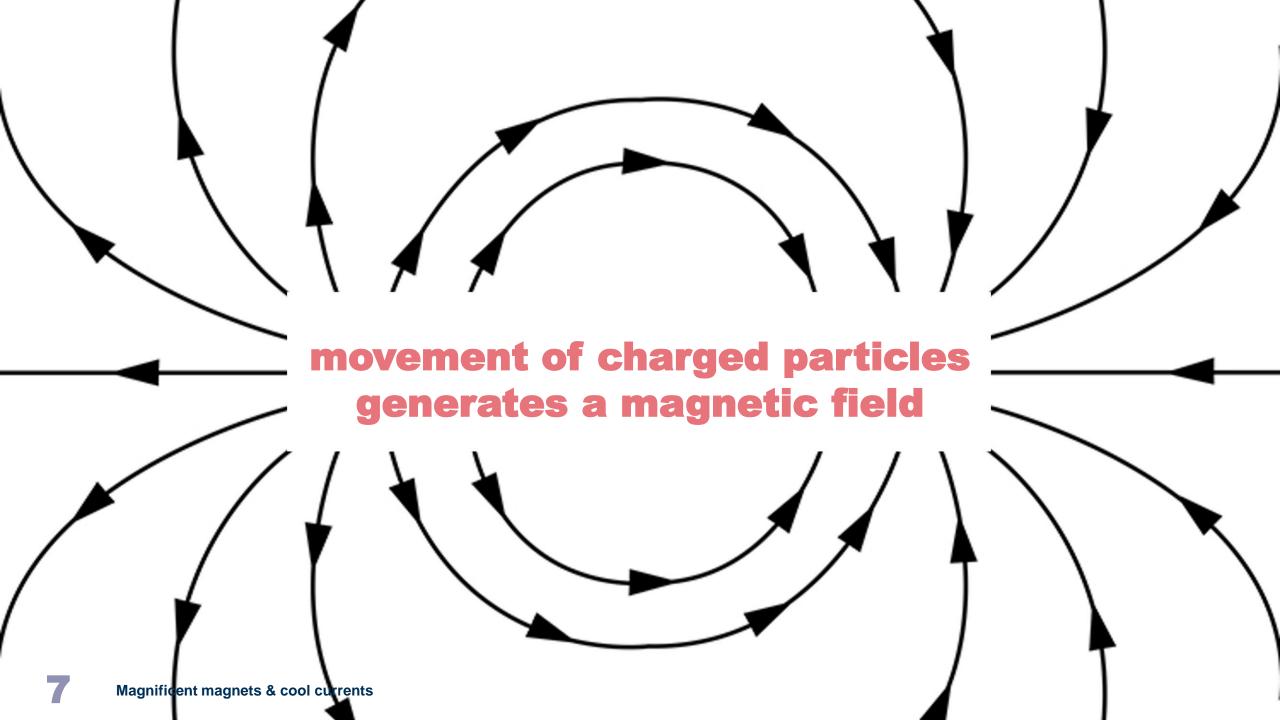


# **Magnetic field lines**









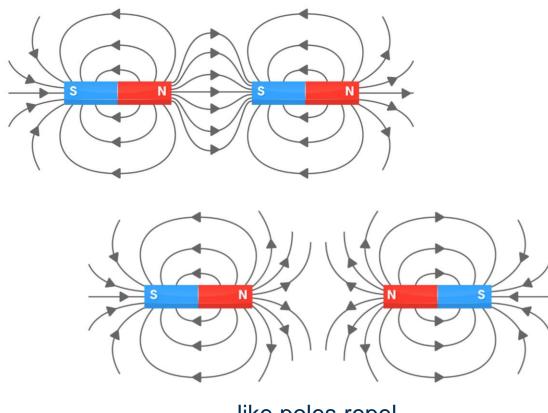
## More magnetic field lines



charged particles moving through a wire (as current) creates a magnetic field

#### **Magnetic fields interacting**

#### opposite poles attract



like poles repel