

## JOURNEY TO THE CENTRE OF THE EARTH.

I'M PROFESSOR SPARKLES AND MY TEAM OF 900 SCIENTISTS AND WE ARE TRAVELLING TO THE CENTRE OF THE EARTH AND I THINK IT SHALL TAKE ABOUT 1 YEAR TO GET THERE. I'M FEELING VERY EXCITED AND SCARED AT THE SAME TIME.

### THE CRUST

THE FIRST LAYER I HAVE TO DIG THROUGH THE CRUST. THE CRUST IS THE LAYER YOU LIVE ON, IT IS A THIN SKIN ROCK AROUND THE EARTH, LIKE THE SKIN ON AN APPLE. THE CRUST IS 8-65 KM THICK. IT IS MADE FROM ROCKS AND MINERALS (OXYGEN, SILICONE, ALUMINIUM AND IRON).

### THE MANTLE

THE SECOND LAYER IS CALLED THE MANTLE, IT FORMS ABOUT HALF OF THE EARTH. IT IS MADE FROM SOLID ROCK THAT CAN FLOW-IT IS KNOWN AS PLASTIC ROCK. IT MOVES IN BIG CIRCLES CAUSED BY CONVECTION CURRENTS. THIS IS WHERE THE HOT ROCK RISES AND THE COLD ROCK SINKS. THE MANTLE IS 2900 KM DEEP. IT IS MADE FROM SILICON, IRON AND MAGNESIUM.

### OUTER CORE/ INNER CORE

IT IS MADE OF MAINLY IRON AND NICKEL. THE OUTER CORE IS LIQUID AND IS 2220 KM THICK. THE INNER CORE IS HOTTER BUT THE METALS ARE SOLID. THE INNER CORE IS 1260 KM THICK. THE OUTER CORE IS WHERE THE MAGNETIC FIELD COMES FROM-THIS MAKES COMPASSES WORK!

