

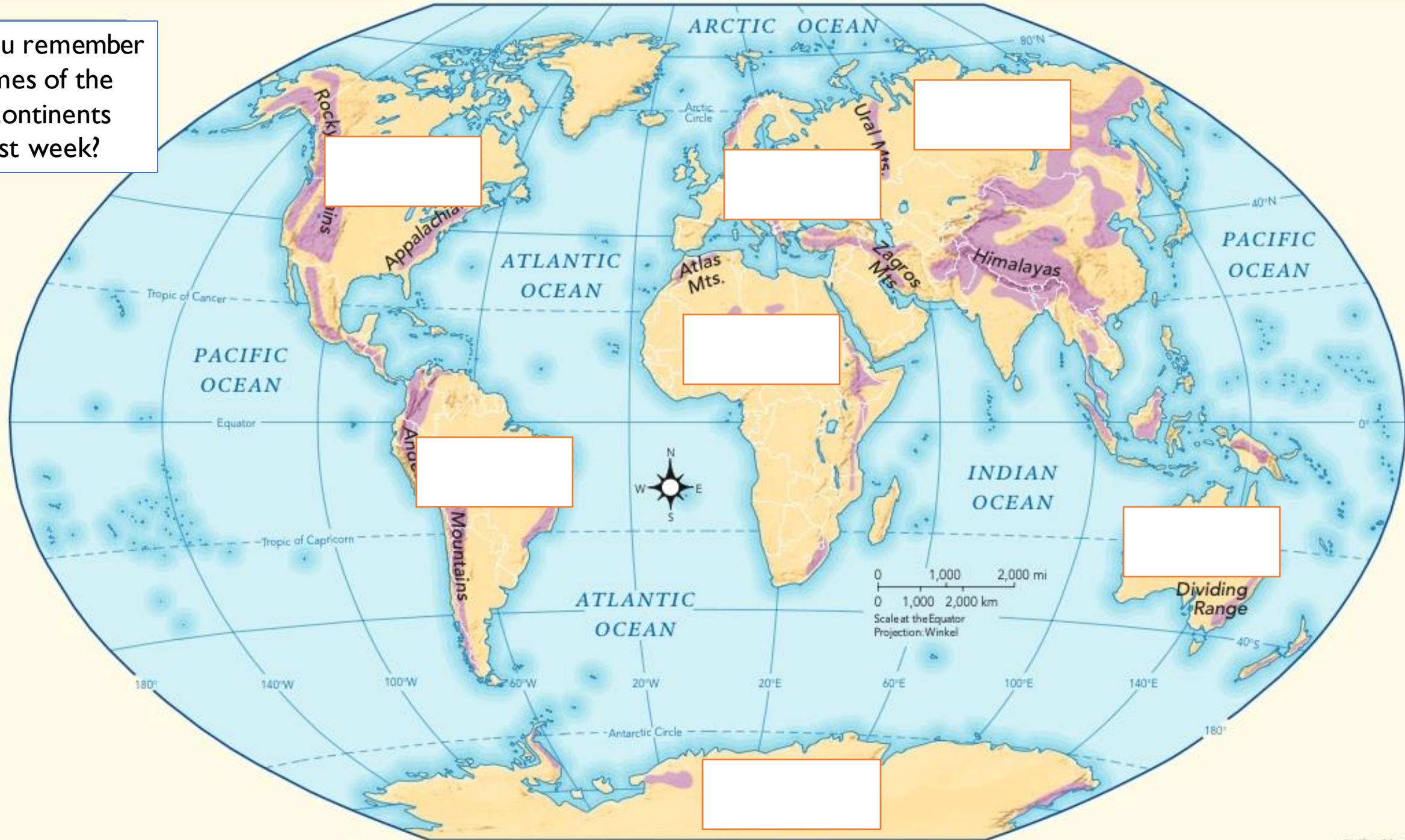
An aerial photograph of a vast, snow-covered mountain range. The terrain is rugged and textured with numerous ridges and valleys. In the upper right foreground, the wing and tail section of a white airplane are visible against a clear, bright blue sky. The overall scene is serene and majestic, showcasing the scale of geological formations.

Mountains, Volcanoes and Earthquakes

YEAR THREE

SPRING I

Can you remember the names of the seven continents from last week?

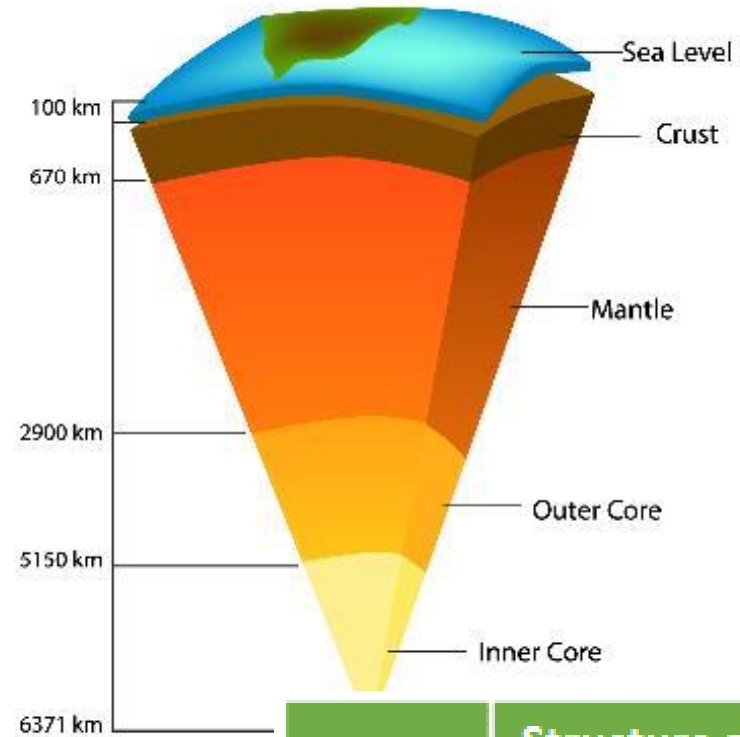
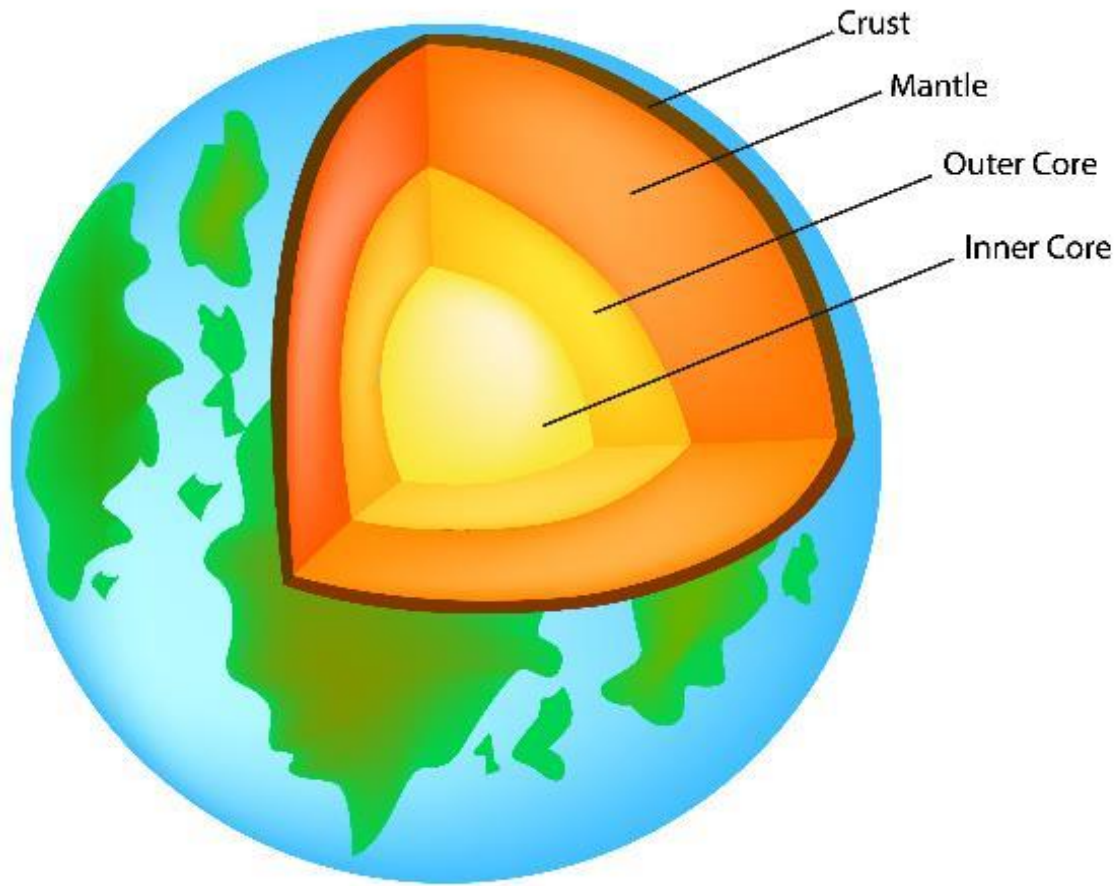


LESSON TWO

WHAT IS THE EARTH MADE OF?

THE EARTH IS A SPHERE AND IS MADE UP OF FOUR MAIN LAYERS

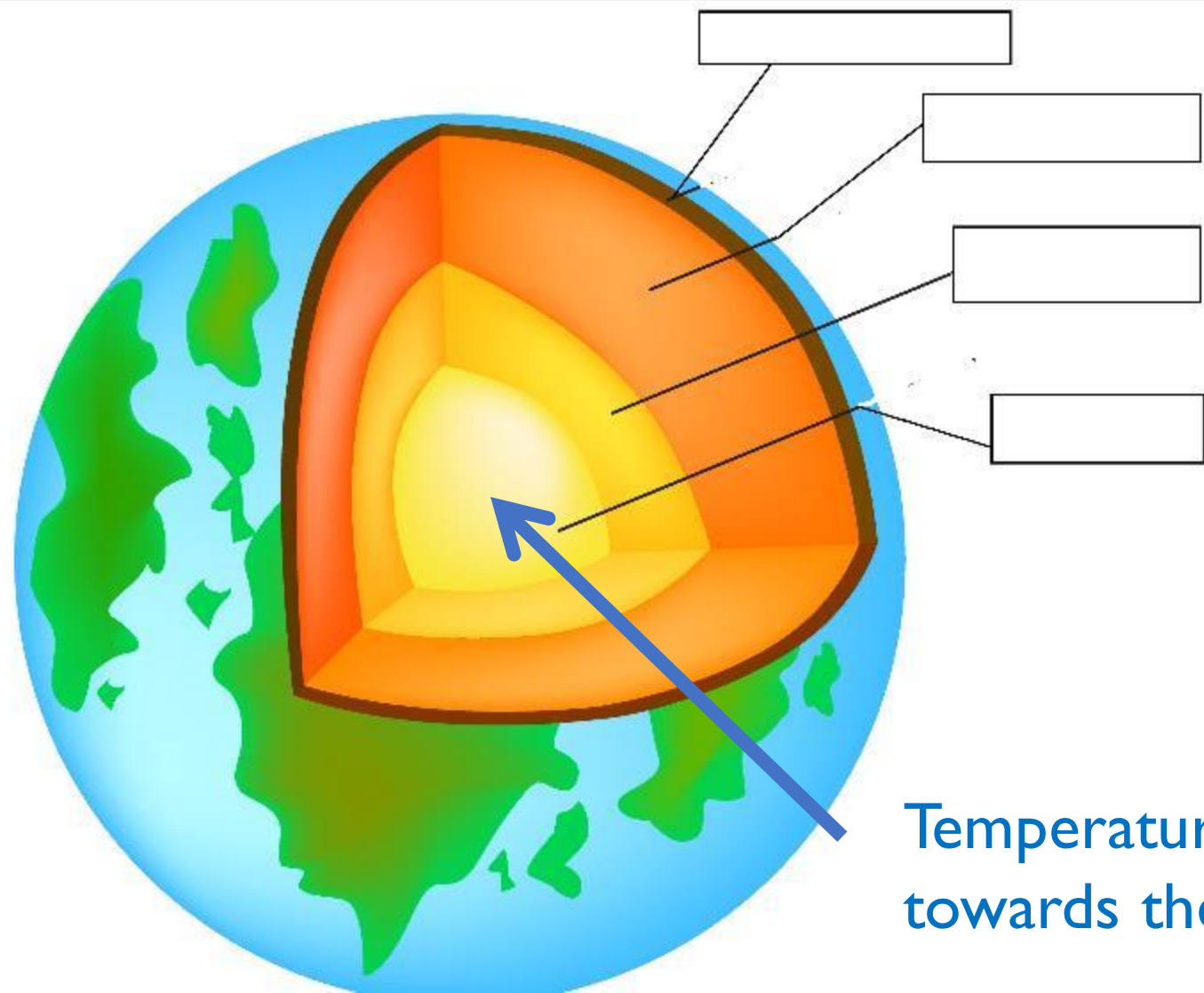
- **The inner core:** The inner core is at the very centre of the Earth and it is made of solid metals called iron and nickel. The centre of the earth is extremely hot, about 6100 °C.
- **The outer core:** The inner core is surrounded by the outer core, this section is made of the same two metals, iron and nickel but they are liquids in this section. The outer core is slightly colder, about 4,400 °C.
- **The mantle:** The mantle is about 2,900Km thick and is made of molten (melted, liquid) rock. This molten rock is called magma. The average temperature of the mantle is 3000 °C. The mantle is between the outer core and the crust.
- **The crust:** The crust is made of solid rock, up to 60 Km thick. The two main types of rock are granite and basalt. This layer is broken into tectonic plates which move around in different directions. The tectonic plates are constantly moving, but very slowly so we don't notice, until there is an earthquake!



Structure of the Earth	
Crust:	solid rock; 0-60 km thick; continental (granite) and oceanic (basalt); broken into tectonic plates
Mantle:	liquid/molten rock; ~2,900 km thick
Outer core:	liquid metal; iron and nickel; ~4400°C
Inner core:	solid metal; iron and nickel; ~6100°C

Have you ever heard of any of these words before?
What do you know about them?

Can you remember the name of each layer?



Temperature increases towards the centre

What is each layer made of?
What temperature is each layer?

NOW TRY YOUR QUIZ



Mountains, Volcanoes and Earthquakes

YEAR THREE

SPRING I

**Complete
your learning
review**