

Plate Tectonics

L	A	N	I	D	U	T	I	G	N	O	L	C	O	D
F	X	U	S	P	V	O	L	C	A	N	O	O	O	S
Y	C	O	N	V	E	C	T	I	O	N	E	N	C	V
V	K	V	J	E	R	E	H	P	S	O	H	T	I	L
N	E	V	I	T	C	U	R	T	S	E	D	I	N	D
O	U	T	E	R	C	O	R	E	H	E	D	N	A	E
I	R	K	E	K	A	U	Q	H	T	R	A	E	E	N
L	E	V	I	T	C	A	O	I	D	A	R	N	C	S
L	S	E	R	T	E	M	I	L	L	I	M	T	O	I
I	C	G	I	A	E	S	R	E	V	S	N	A	R	T
E	S	V	E	L	S	L	D	I	U	Q	I	L	T	Y
T	E	C	T	O	N	I	C	I	M	S	I	E	S	M
J	V	N	A	D	J	Y	B	D	A	T	J	J	U	N
L	A	W	L	H	G	N	J	C	U	O	A	T	R	N
M	W	B	P	M	S	B	U	U	S	V	Z	U	C	J

- 1) **BILLION**
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- 1) The oldest rocks in the Earth's crust are about 3½ **B7** years old
- 2) A **C12** plate margin is where plates move apart and magma rises to create new rocks under the sea.
- 3) **C11** plates have all the land that is above sea level. They are thick but not as dense
- 4) Plates are moved slowly by **C10** currents in the mantle
- 5) The lithosphere is the scientific name for the Earth's **C5**
- 6) The **D7** of oceanic plates is greater than the **D7** of continental plates
- 7) A **D11** plate margin is where plates collide, earthquakes and volcanoes erupt
- 8) An **E10** happens when plates collide, scrape against each other or suddenly give way under huge pressure
- 9) Primary waves can travel through solid and **L6**. Secondary waves cannot travel through **L6**
- 10) The **L11** is the solid crust that floats on top of the mantle
- 11) Primary waves travel along in a push-pull **L12** direction
- 12) The **M6** contains convection currents that cause the plates to move
- 13) Tectonic plates move only a few **M11** each year
- 14) **O7** plates are dense tectonic plates that are at the bottom of the ocean
- 15) The study of seismic waves (P and S) through the Earth shows that it probably has a solid iron inner core and a liquid **O5 C4**
- 16) The lithosphere is cracked in places. Each piece is called a tectonic **P5**
- 17) The huge amount of heat energy in the Earth's mantle is generated by the decay of **R11** elements (eg uranium)
- 18) Primary and secondary waves are caused by earthquakes. They are both types of **S7** waves
- 19) Oceanic and continental plates are both types of **T8** plates
- 20) S waves travel in a snaking, side to side **T10** direction
- 21) When lava is pushed up through the crust it sets hard to form a **V7**
- 22) Primary **W5** are longitudinal, Secondary W5 are transverse