



discovery sheet

We have made these discovery worksheets to help you discover more about our planet.

Use these symbols to help you



This symbol tells you when you need to look carefully at something



This symbol tells you that you need to write something down



This symbol tells you that you need to listen carefully

****TEACHERS COPY****



state of the earth

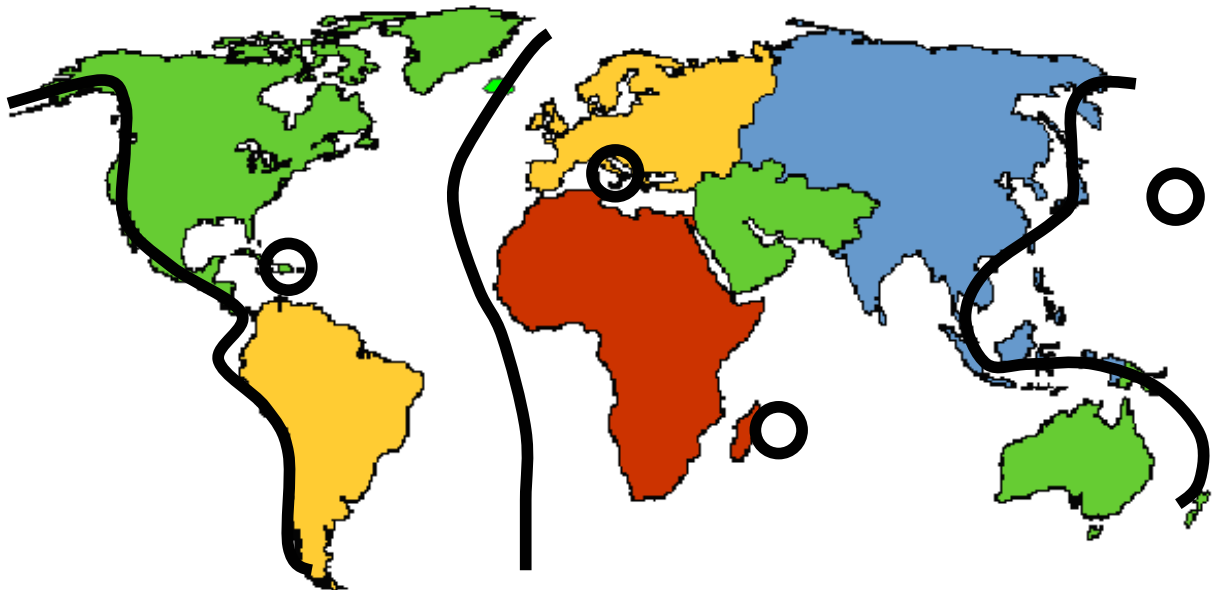
5 mins



Name the active volcano that is closest to Britain.

..... *Grímsvotn in Iceland (or Mount Etna and Stromboli in Italy)*

On the map of the world, circle an area that has volcanoes



(the thick black lines show the Mid-Atlantic Ridge and the Pacific Ring of Fire – so any of these regions can be circled. Right in the centre of the Pacific Ocean sits Hawaii, one of the most volcanically active areas in the world! In addition, in Italy we have Stromboli, Etna and Vesuvius, and just off the coast of Madagascar is Reunion Island. Monserrat sits in the Atlantic Ocean, in the West Indies).



the time machine

1.5 mins

Travel back in time 15 thousand, million years!



how it all started

3.5 mins

Discover “how it all started”, travel through space from the outer reaches of the Universe to planet Earth.



restless earth

3.5 mins

Feel the earth quake, watch volcanoes explode, feel the heat, smell the volcanic air!



shaping the surface

3.5 mins

Fly over Norway and Scotland to discover the power of ice.



casualties and survivors 10 mins



There are two timelines on the wall as you come into the casualties and survivors gallery. You can choose whether to follow the plant life (on the left) or the animal life timeline (on the right). When you get to the dates below, draw or write down in the correct box, the name of one of the animals or plants.

Some examples; alga,
Stromatolite, trilobite, snail,
starfish, jawless fish, water
scorpion.

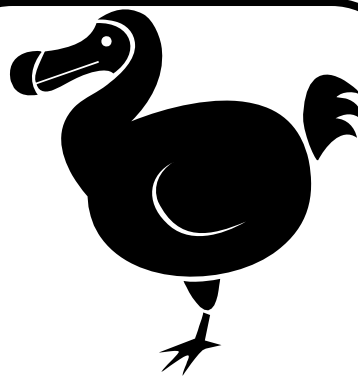
450 million years ago

Some examples; fungi,
ferns, Stromatolite, starfish
Cockroach, snail, shark
Dinosaur, primitive
mammal, squid, coral

200 million years ago

Enormous range of creatures
From sharks and tortoises to
wasps. Plants include cactus
Primrose, snowdrop and
Stromatolite.

50 million years ago



300 years ago



Look at the human brain and how it has allowed us to develop the world around us. Write down the words you can read on the 6 panels.

1. Spiritual
2. Cultural
3. Communicative
4. SoCLaL
5. Inquisitive
6. TeCHNOLOGICAL



Find the satellite photograph of Edinburgh and the Firth of Forth.
Can you find Arthur's Seat?
Can you find where you are now?



oceans

10 mins



Look through the portholes of our yellow submarine to see marine life from around the world. Write down the name or draw an animal from each of the different marine environments.





polar

10 mins



On the globe, circle and label the Arctic (North Pole) and the Antarctic (South Pole).



Why would a polar bear never eat a penguin?

Because polar bears live at the North Pole and

penguins live at the South Pole.





4DVENTURE

An Epic 4D Journey of Contrasts

16 mins

Get set for turbulence as you embark on an epic 4D expedition flying from the Arctic to deep within the Tropical Rainforest.



What are the names of the different biome's that we fly over?

1. Tundra



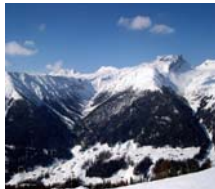
2. Boreal Forest



3. Temperate



4. Alpine



5. Marine



6. Sahara



7. Savanna





tropical rainforest

12.5 mins



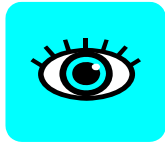
Explore our south-east Asian rainforest. Breathe in the humid, earthy smell. Every 15 minutes be prepared for a torrential rainstorm, with thunderclaps and lightning flashes!



Write down any words that you can think of, that help describe the rainforest e.g humid.

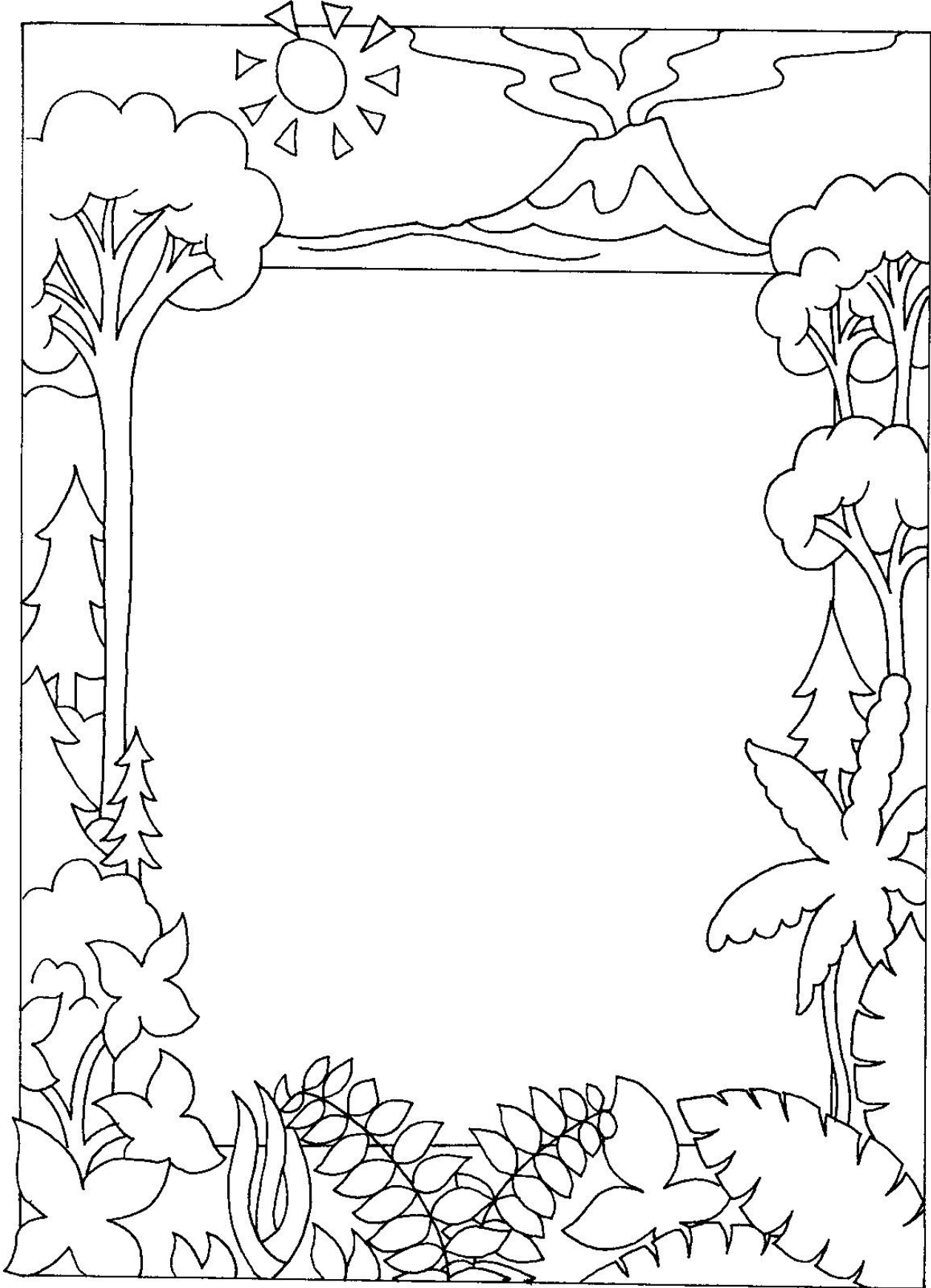


Answers like hot, smelly, wet, noisy.



Look very carefully at the rainforest, can you see the wiggling tails of snakes, a big brightly coloured bird and an orange ape?

the end.



Use this page to draw or write about your favourite thing at Dynamic Earth to help you remember your trip today.