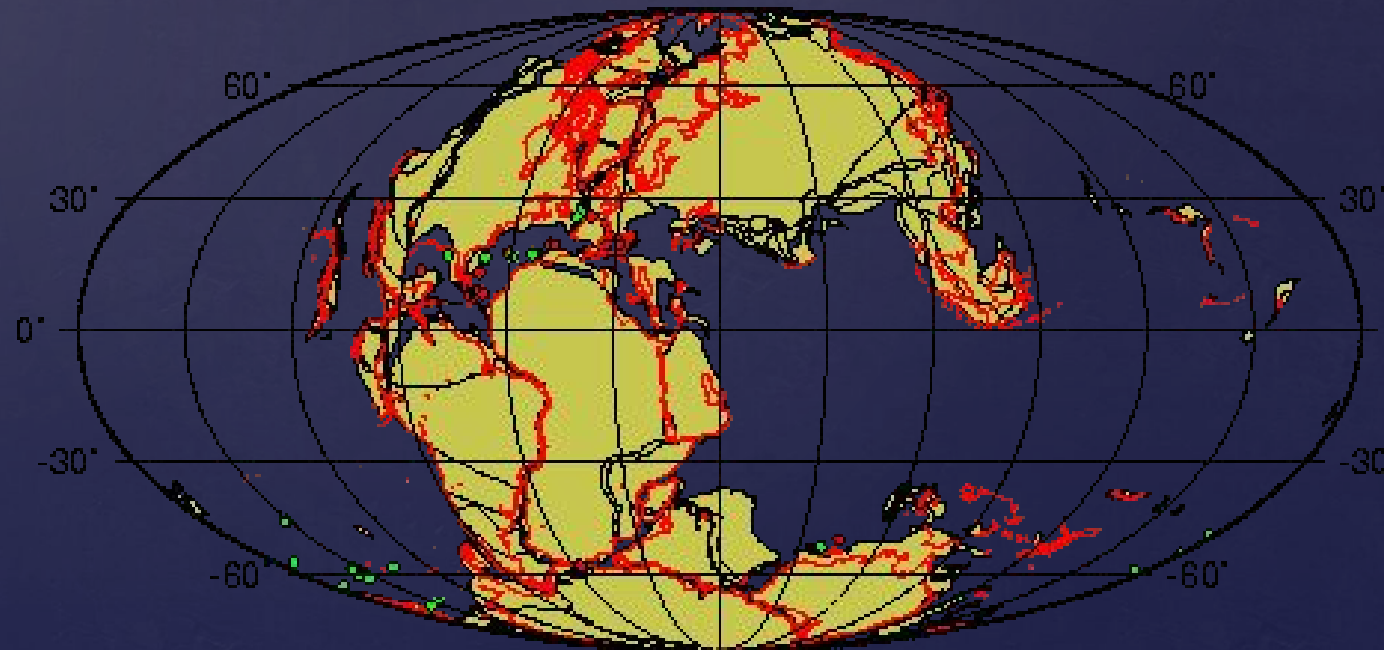
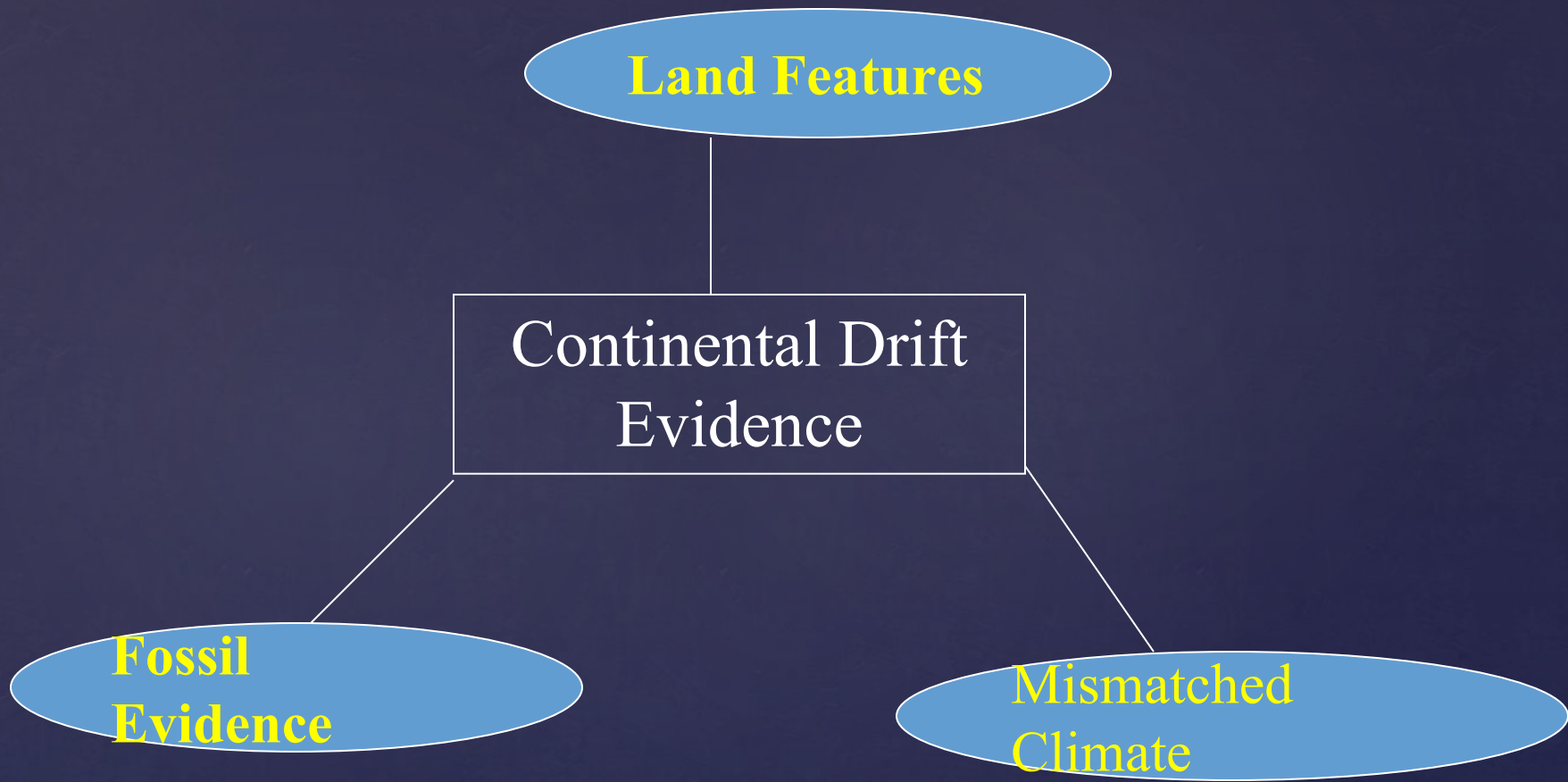
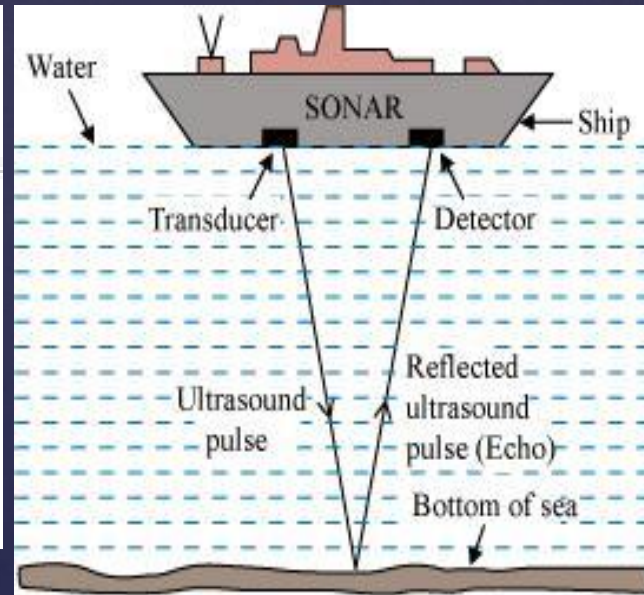
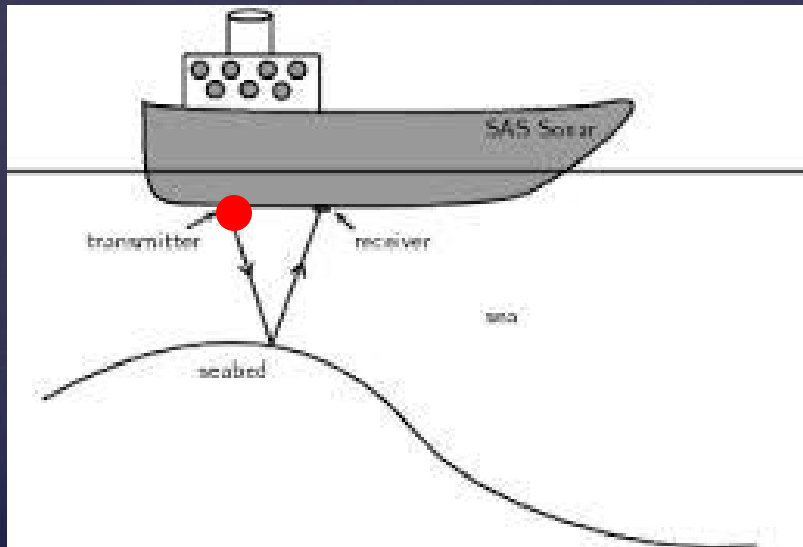


Alfred Wegener (1910) Continental Drift





Harry Hess's Expeditions

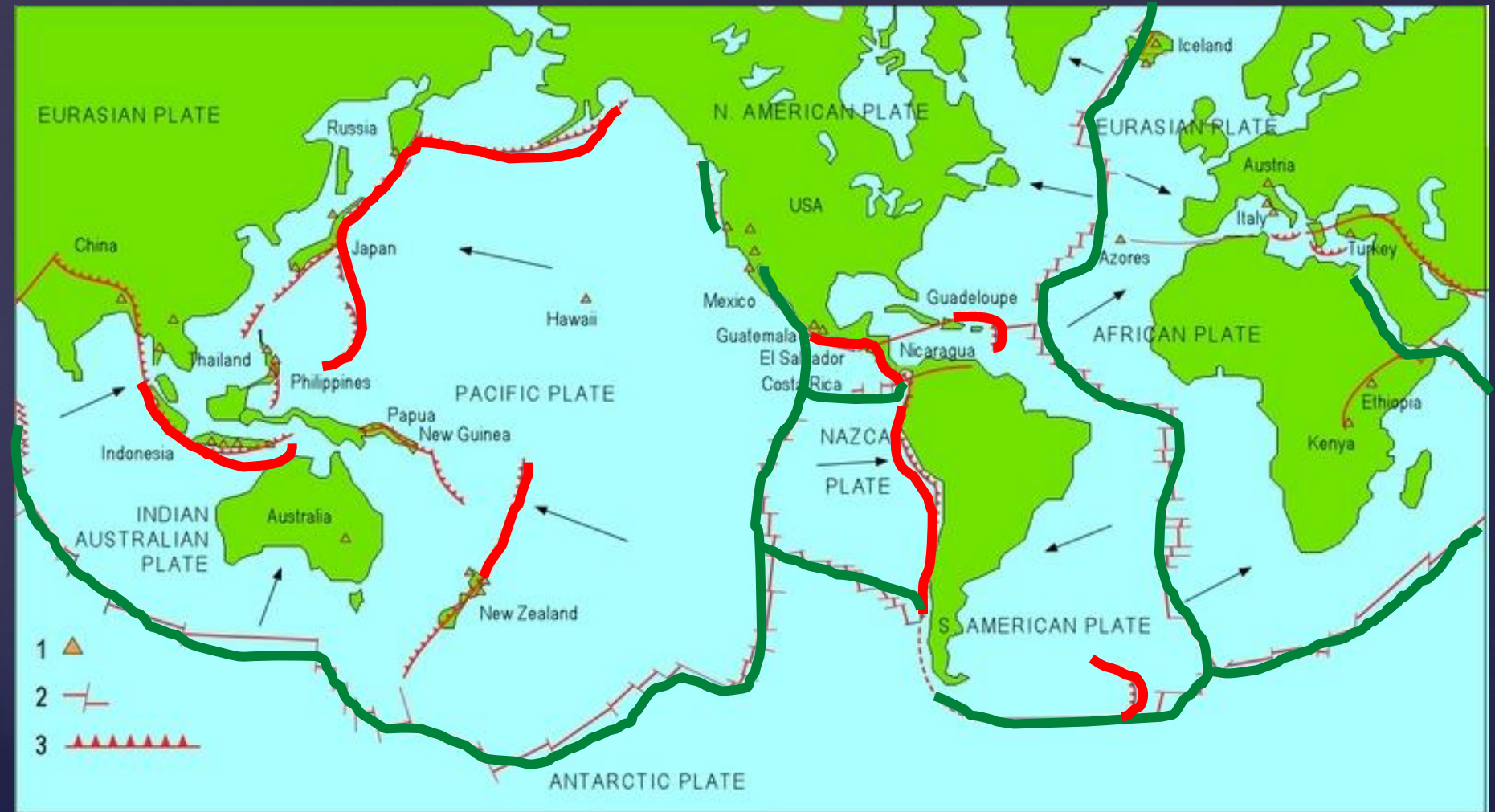


How did he do it... SONAR!!! (1:18)



What would the Earth look like if we drained all of the water?

Mid-Ocean Ridge (MOR) – underwater volcanic mountain chains

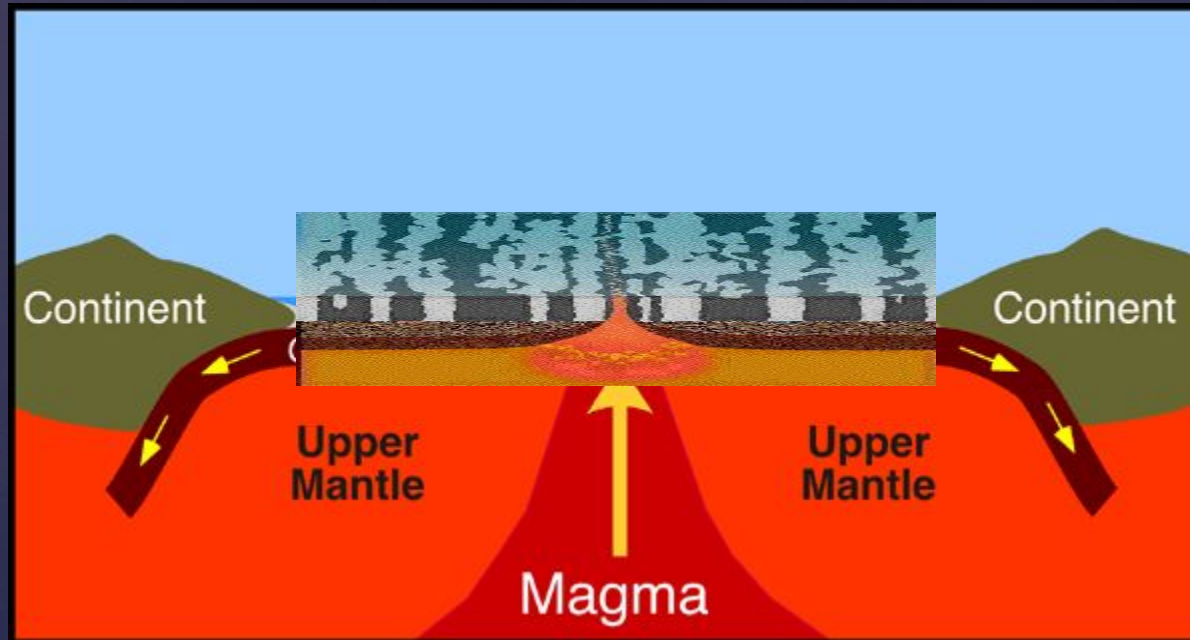


Deep-sea Trenches (DST) – underwater valleys

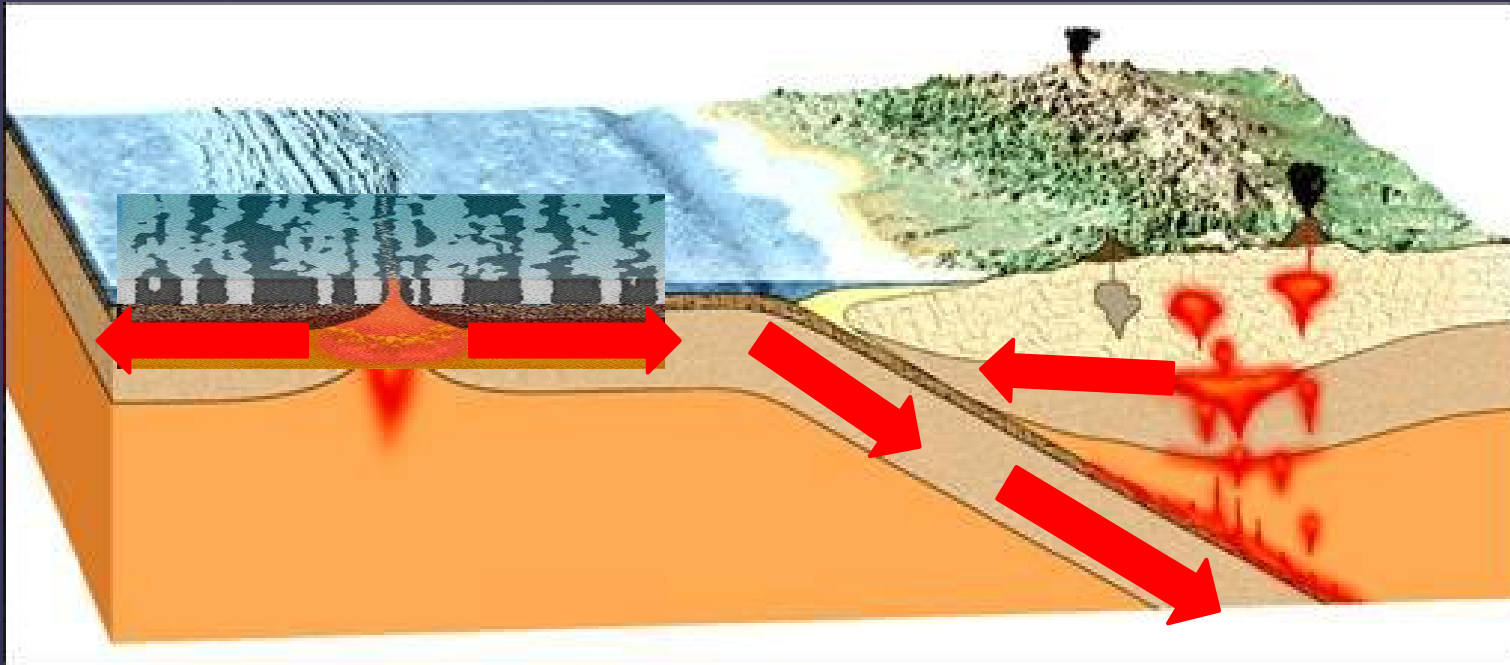
Harry Hess

(1960's)

Sea Floor Spreading



Sea floor spreading – the process of new ocean floor rising up from the mantle at MORs and pushing older sea floor outward



Subduction – the process of old, dense ocean floor sinking back into the mantle at DSTs when converging with less-dense crust

[\(video\)](#)

Molten Material

```
graph TD; A([Molten Material]) --- B[Sea Floor Spreading Evidence]; B --- C([Drilling samples]); B --- D([Magnetic Stripes]);
```

The diagram is a flowchart with a dark blue background. At the top is a light blue oval containing the text 'Molten Material'. A vertical line connects this oval to a white rectangular box in the center containing the text 'Sea Floor Spreading Evidence'. From the bottom-left corner of this box, a line extends to a light blue oval containing the text 'Drilling samples'. From the bottom-right corner of the box, a line extends to another light blue oval containing the text 'Magnetic Stripes'.

**Sea Floor
Spreading Evidence**

**Drilling
samples**

**Magnetic
Stripes**

Molten Material

Press the pillow to see this LIVE!!

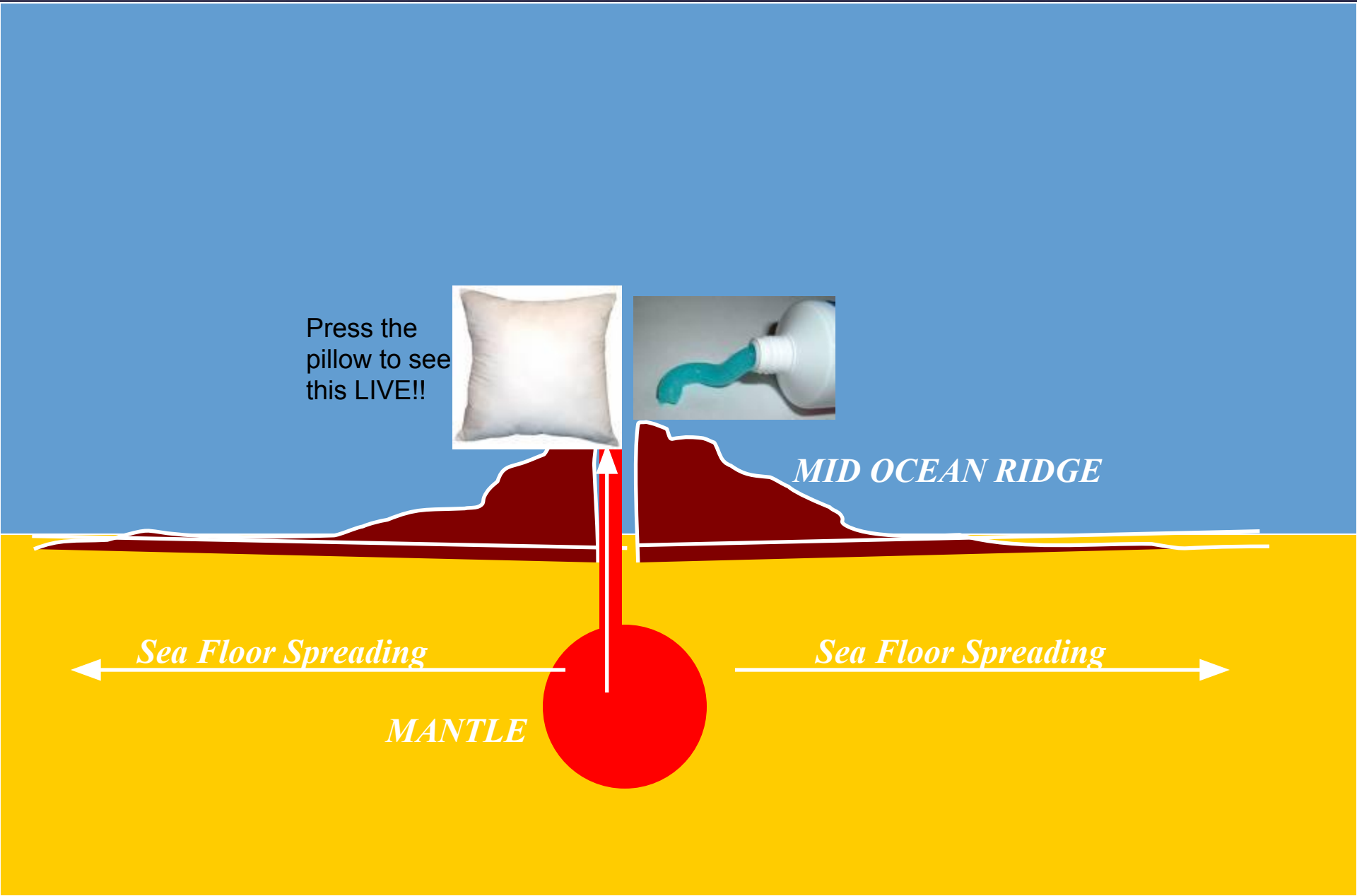


MID OCEAN RIDGE

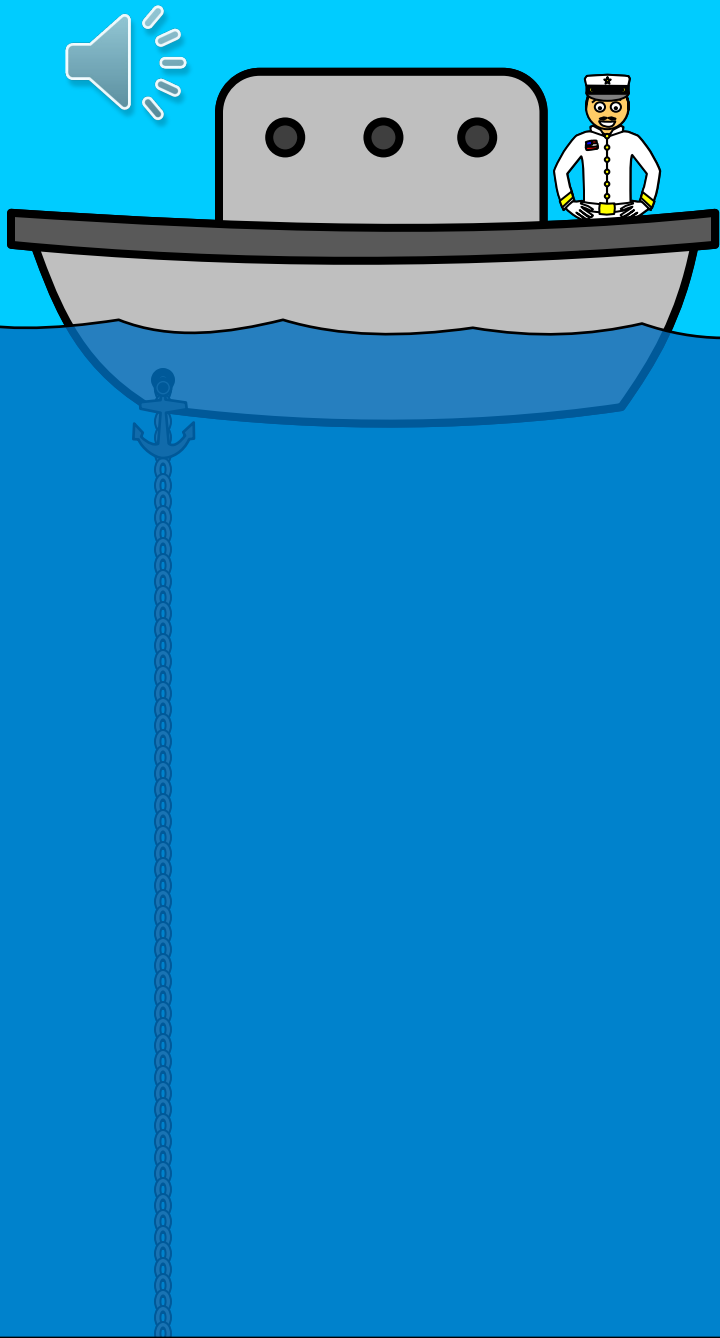
Sea Floor Spreading

Sea Floor Spreading

MANTLE

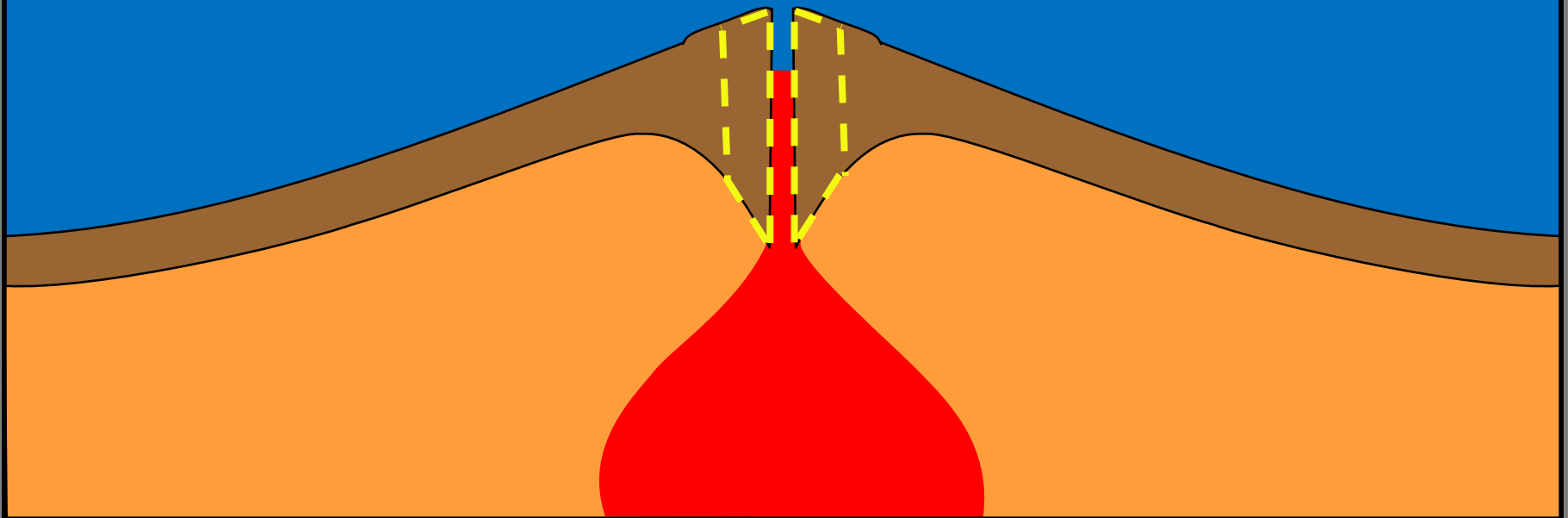


Drilling Samples

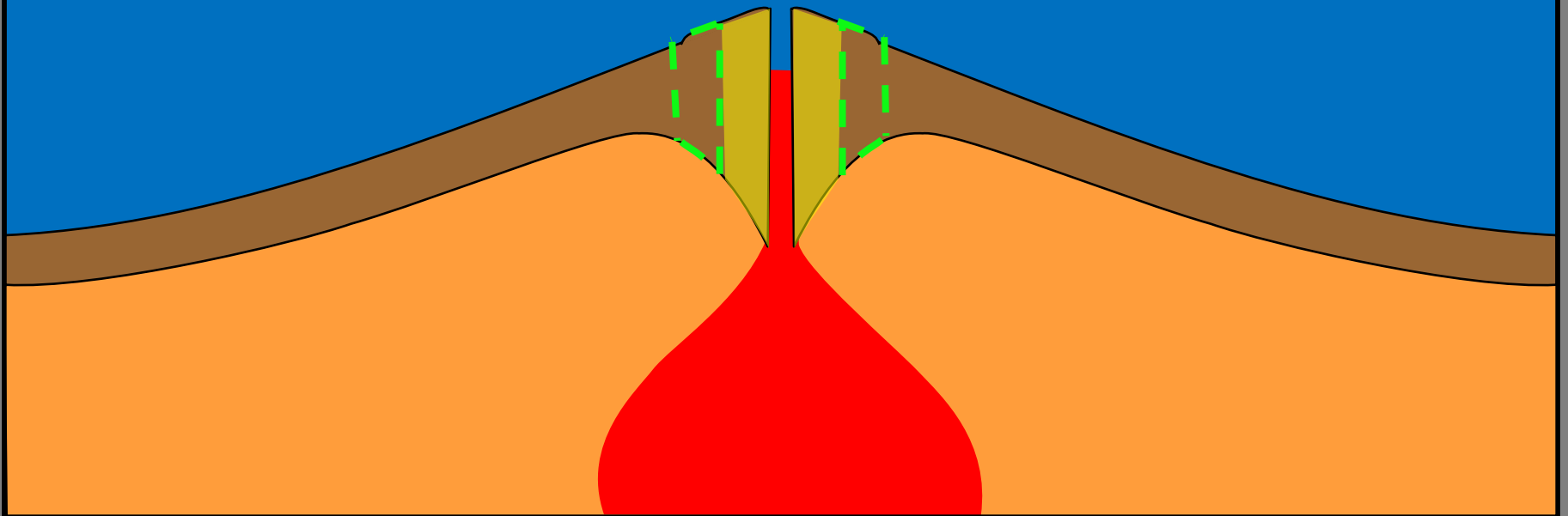


Drilling Samples

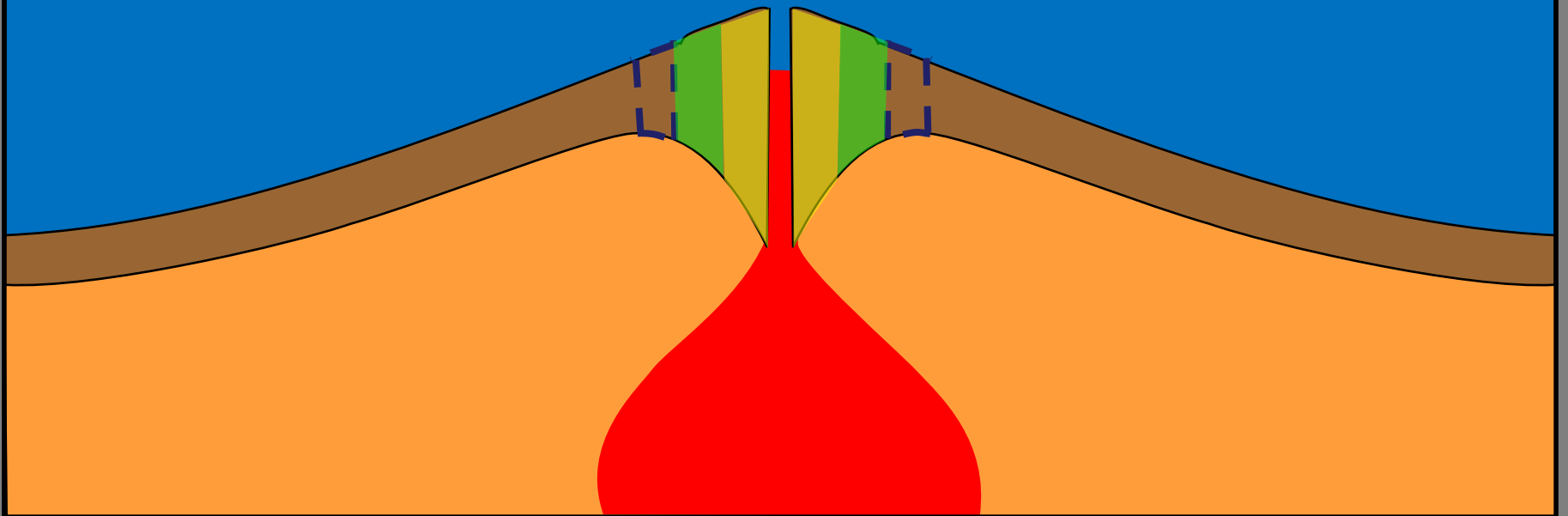
Youngest rocks

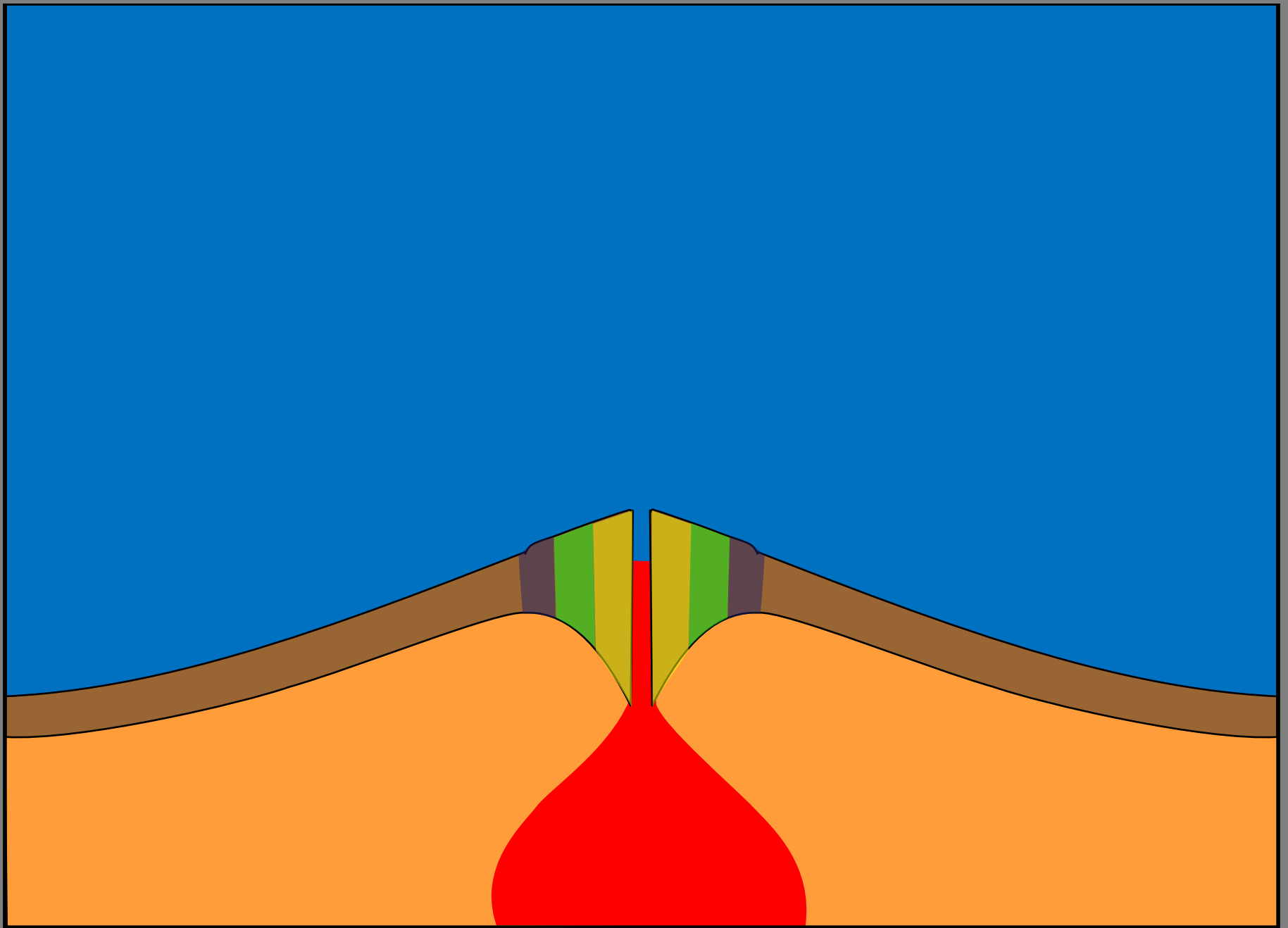


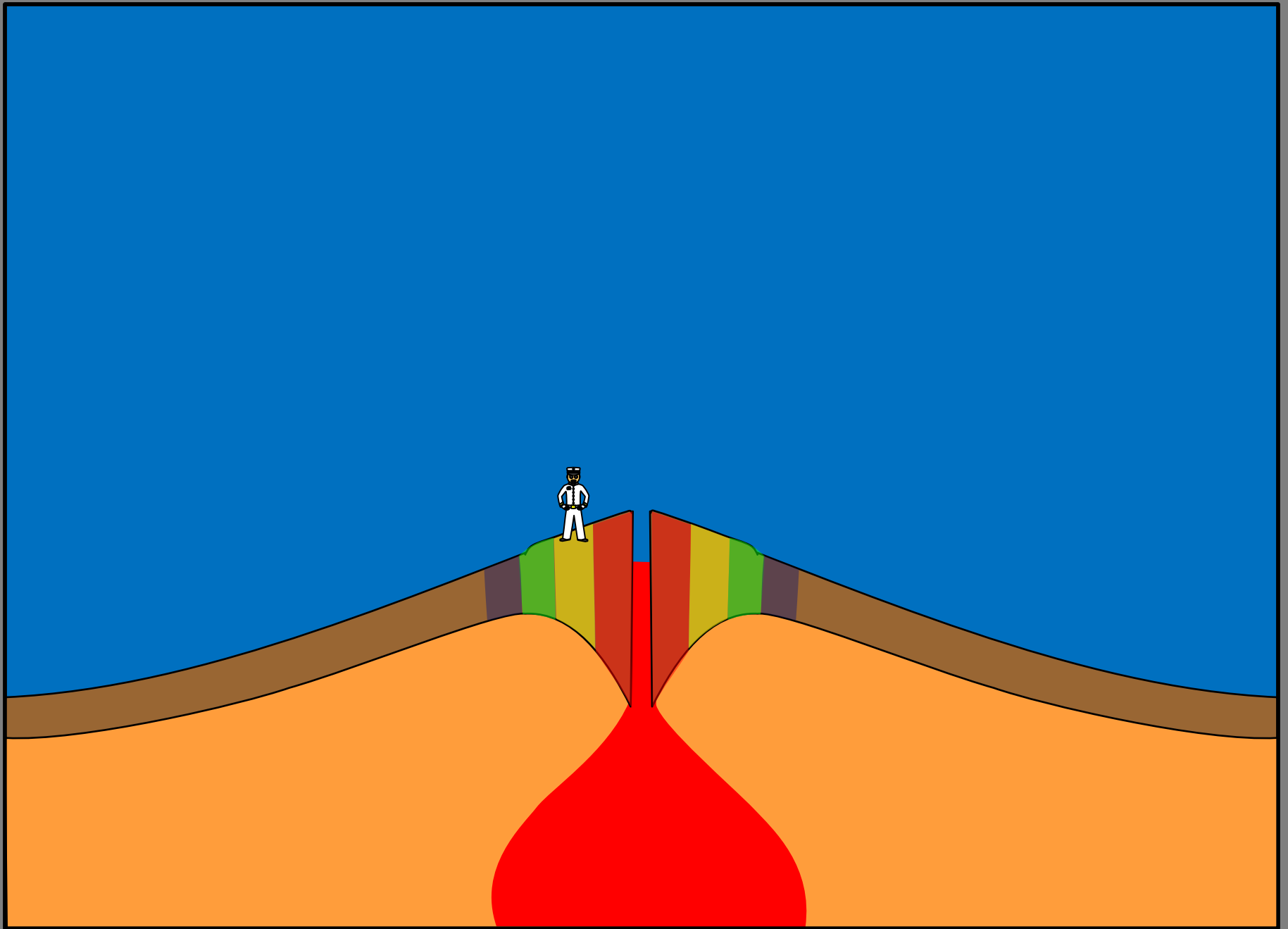
Next Youngest rocks

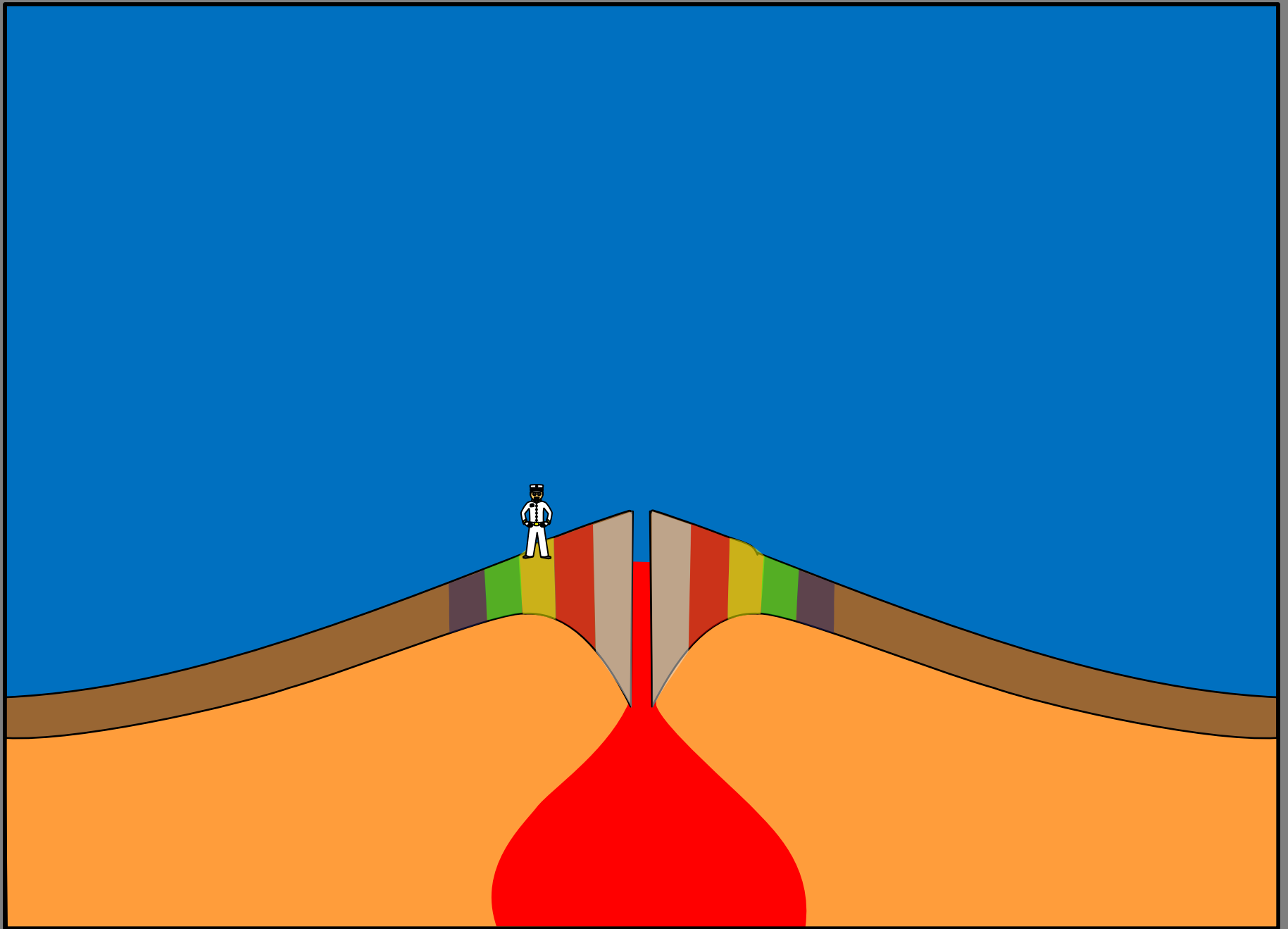


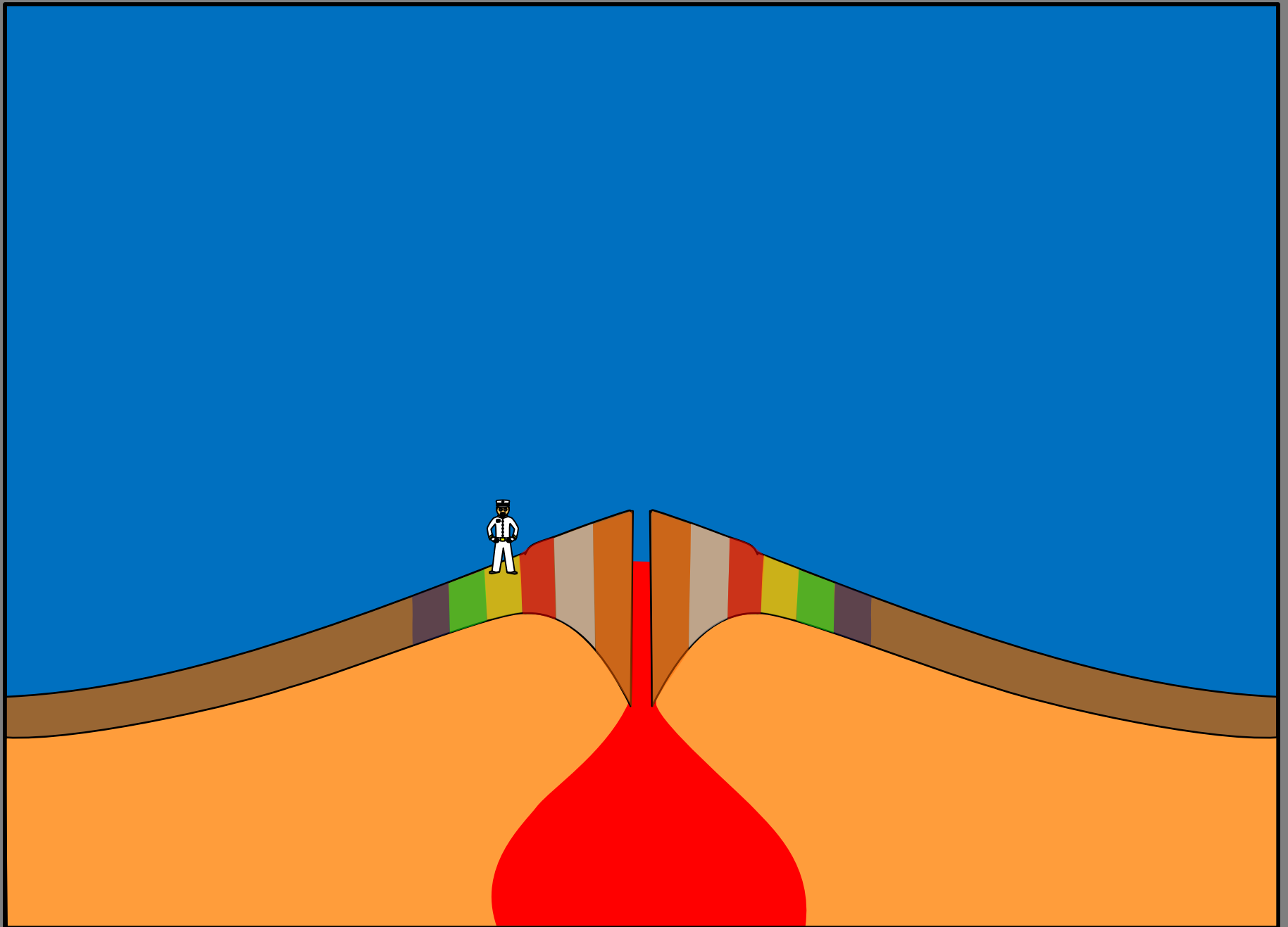
Next Youngest rocks

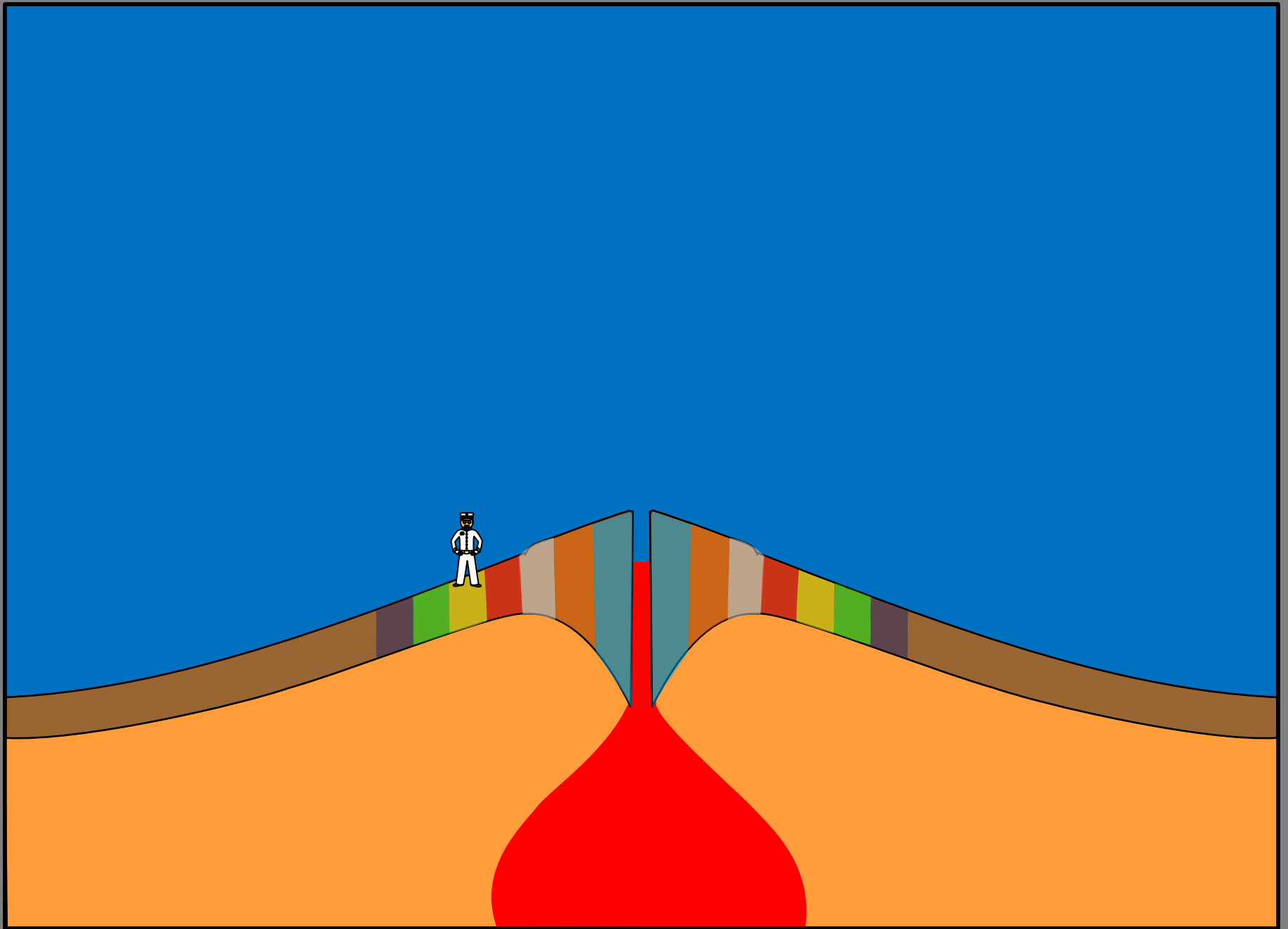


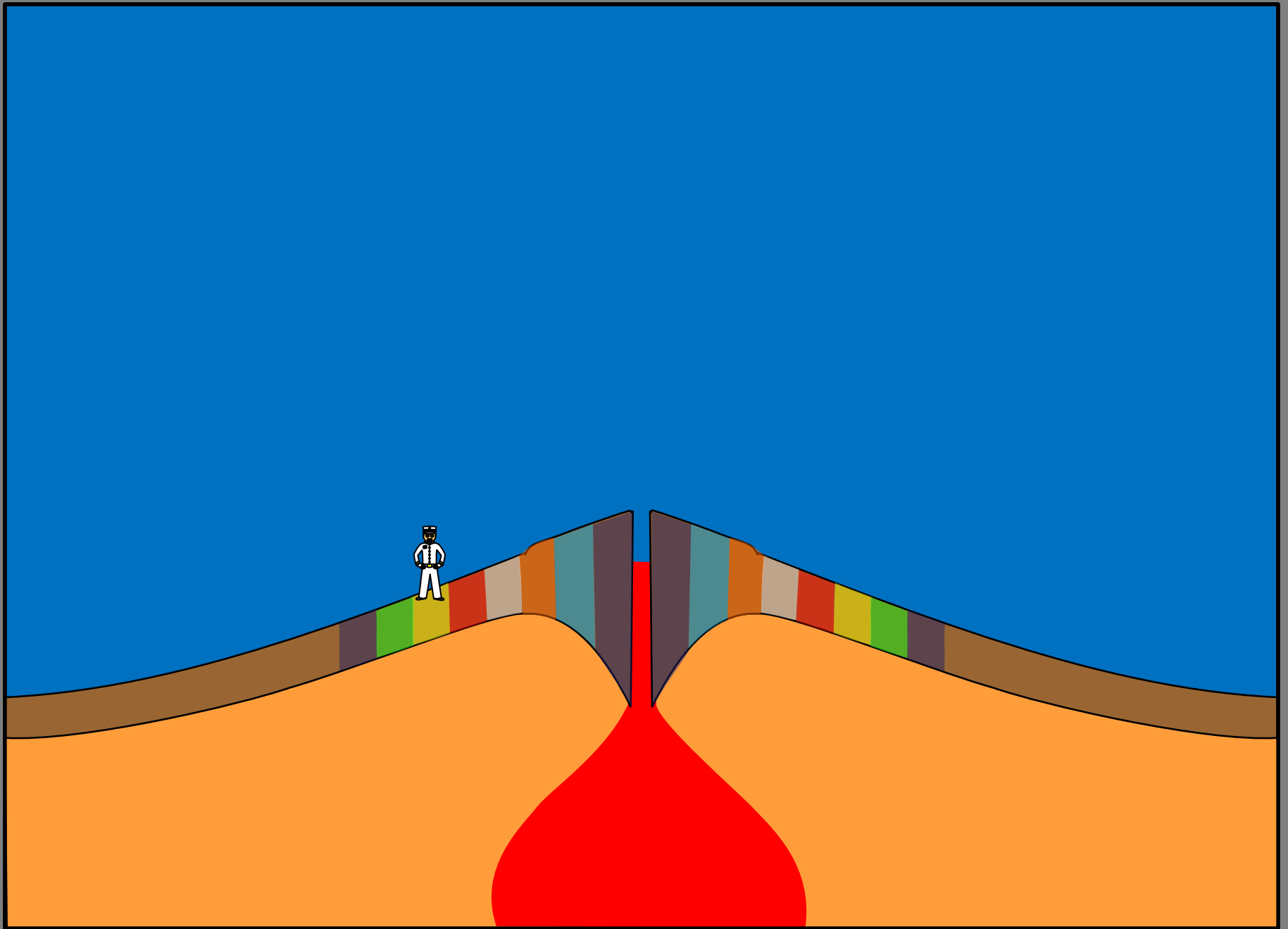


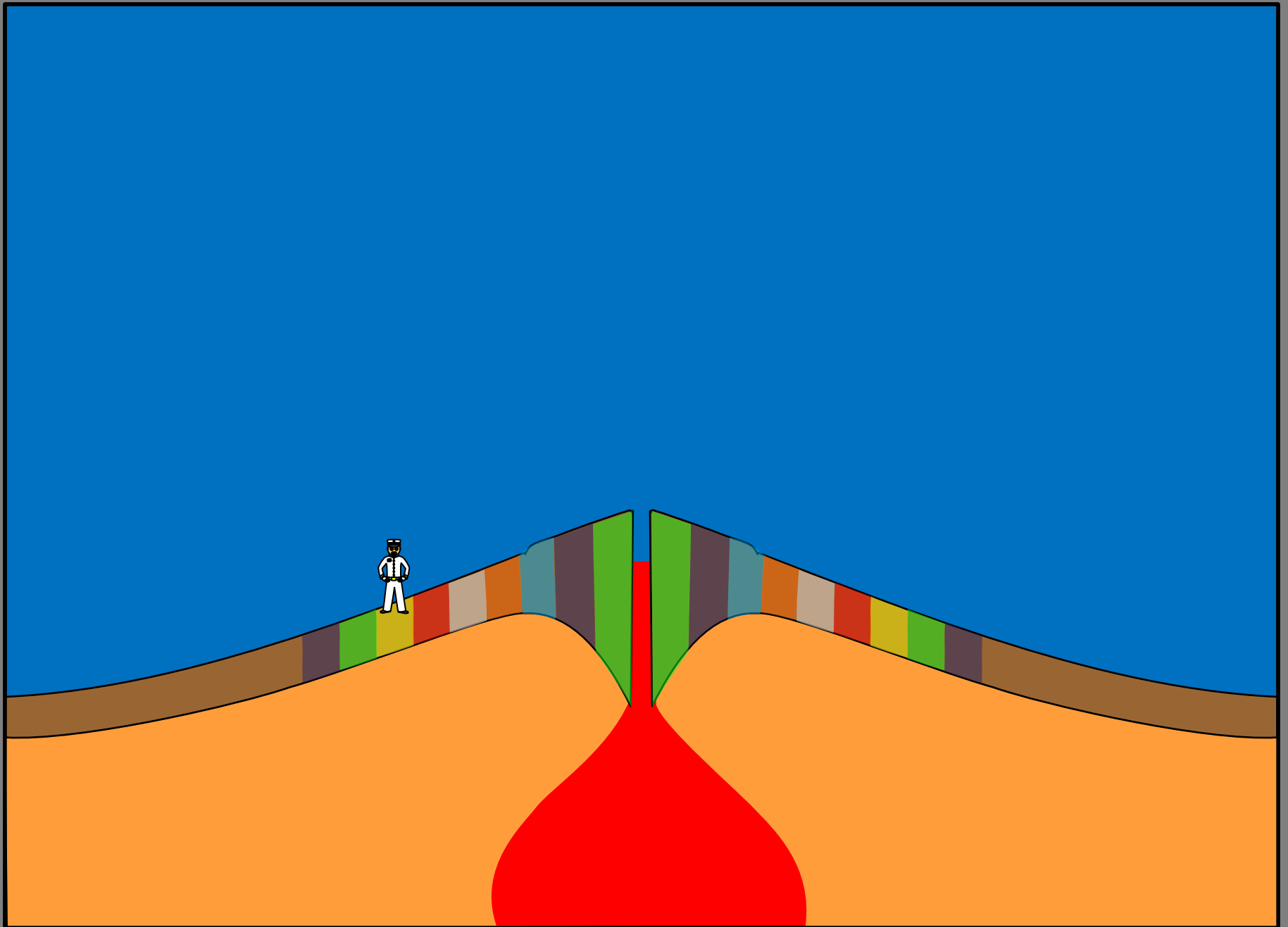


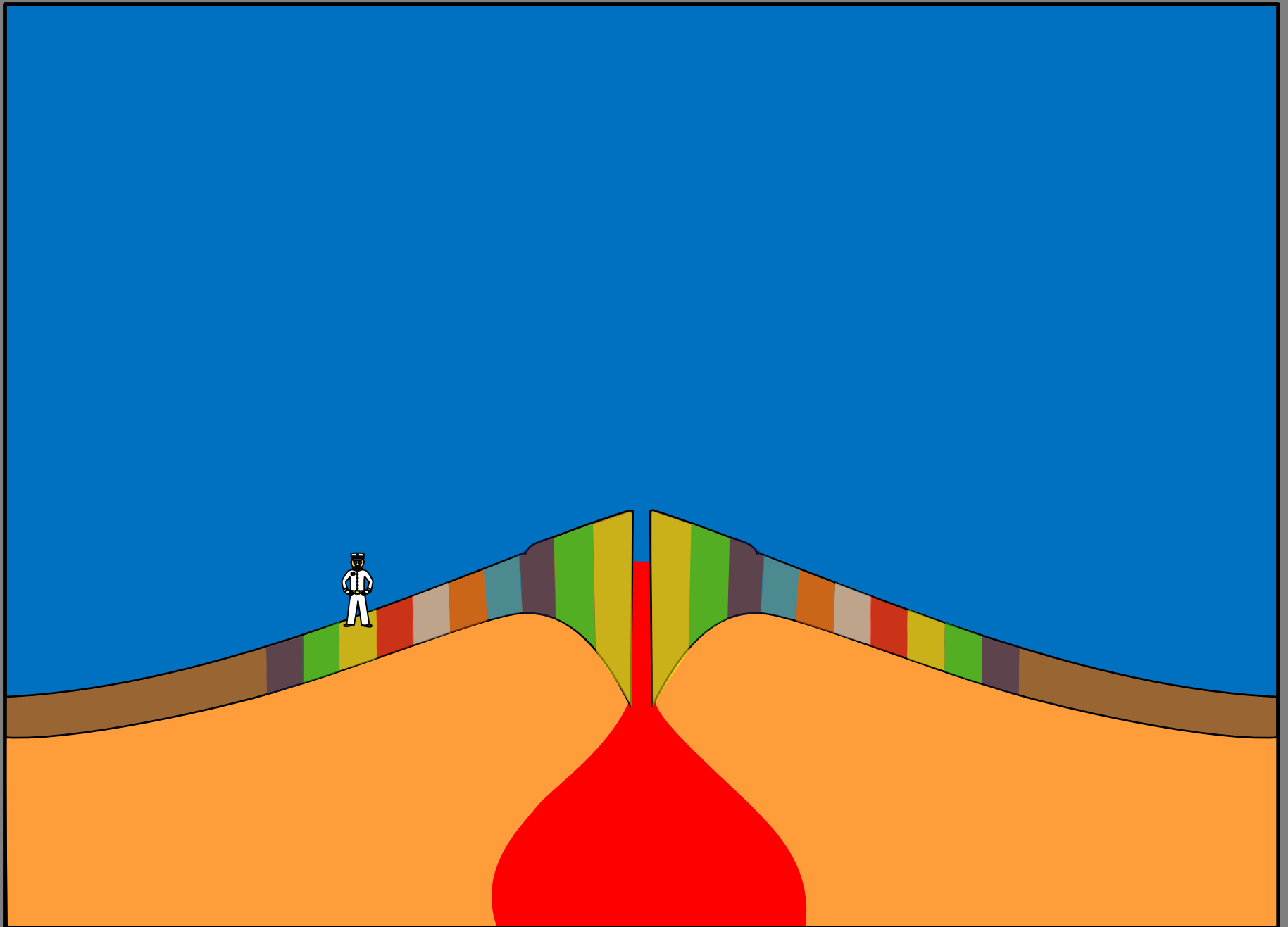


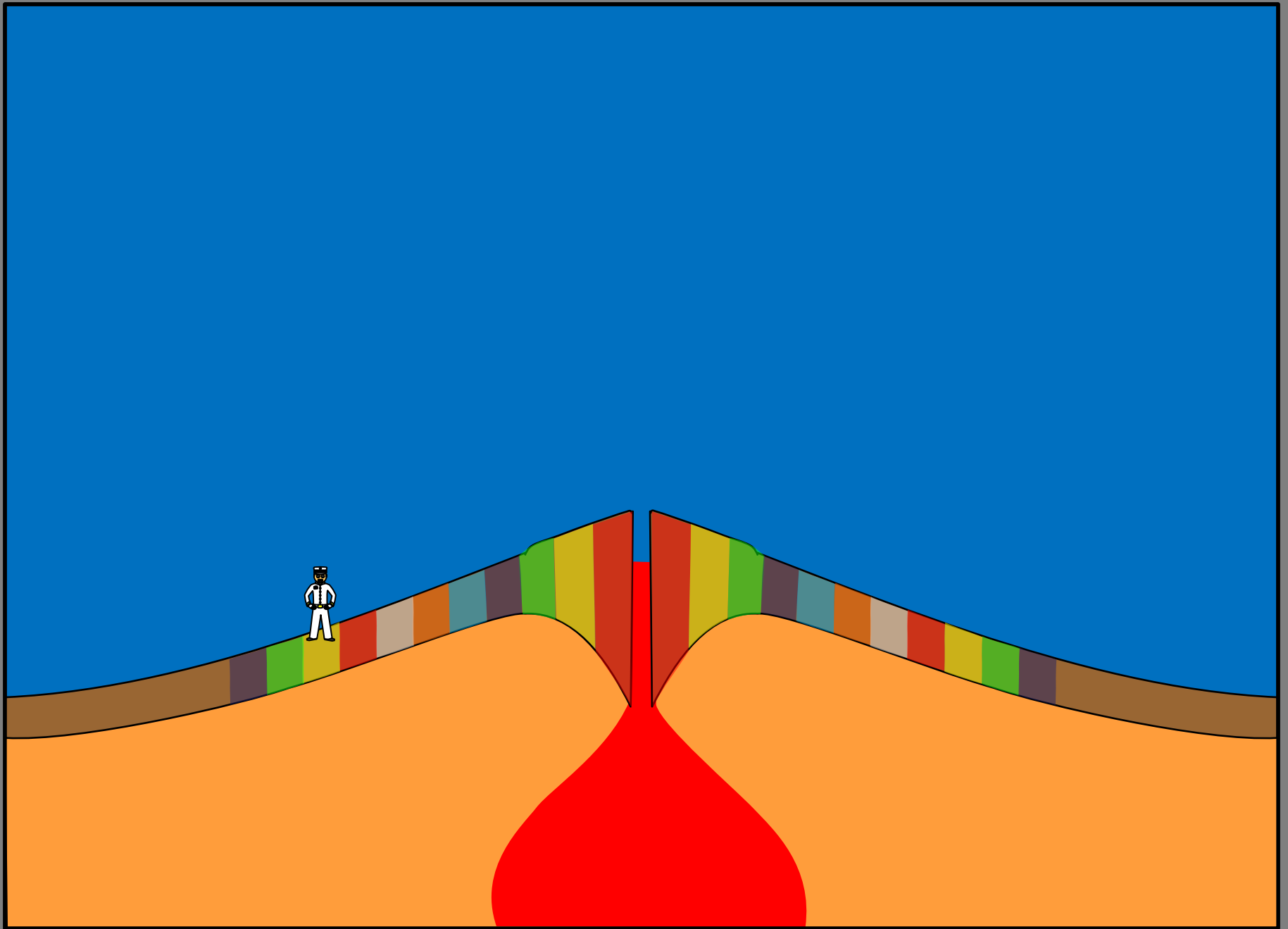


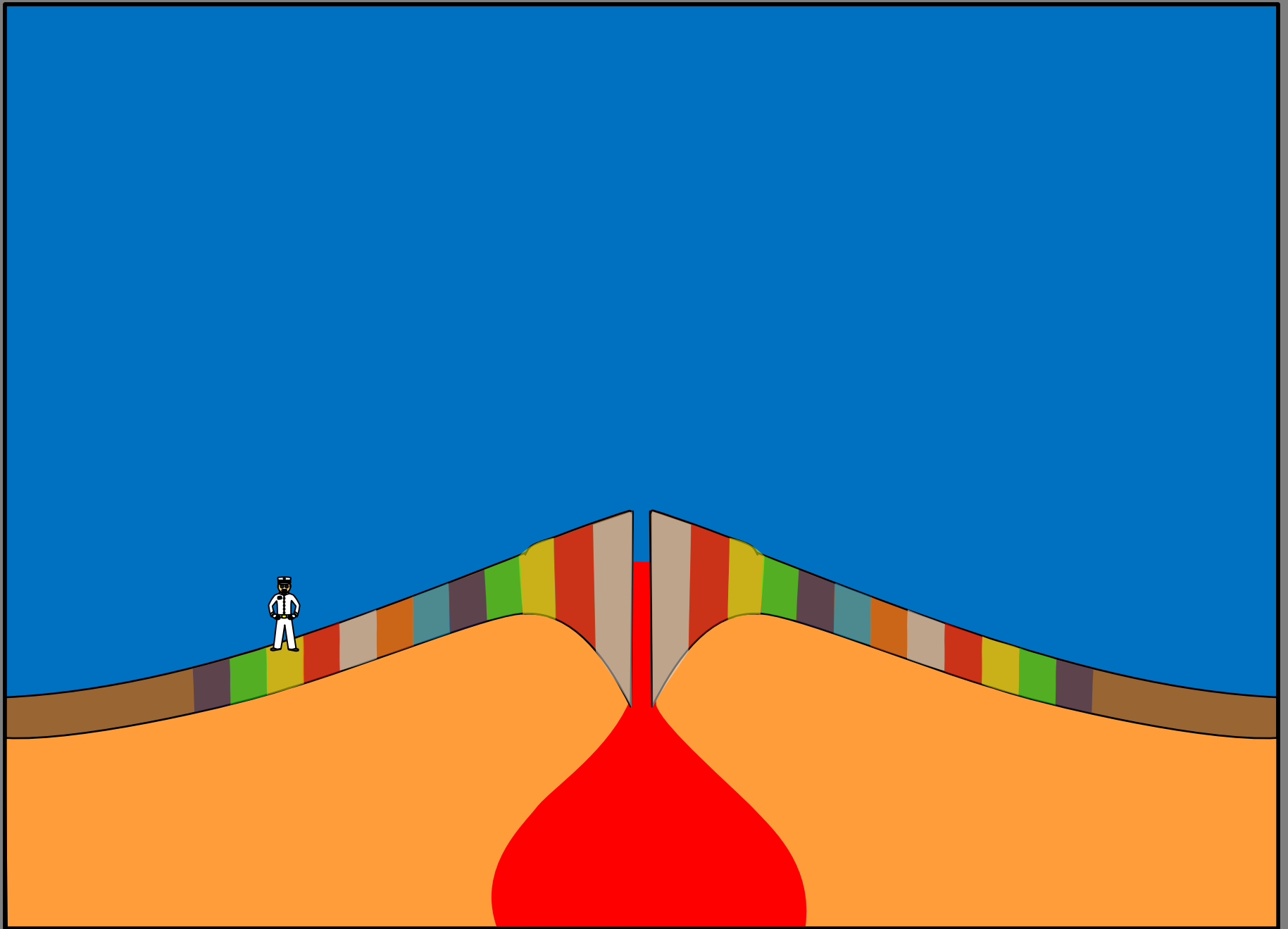


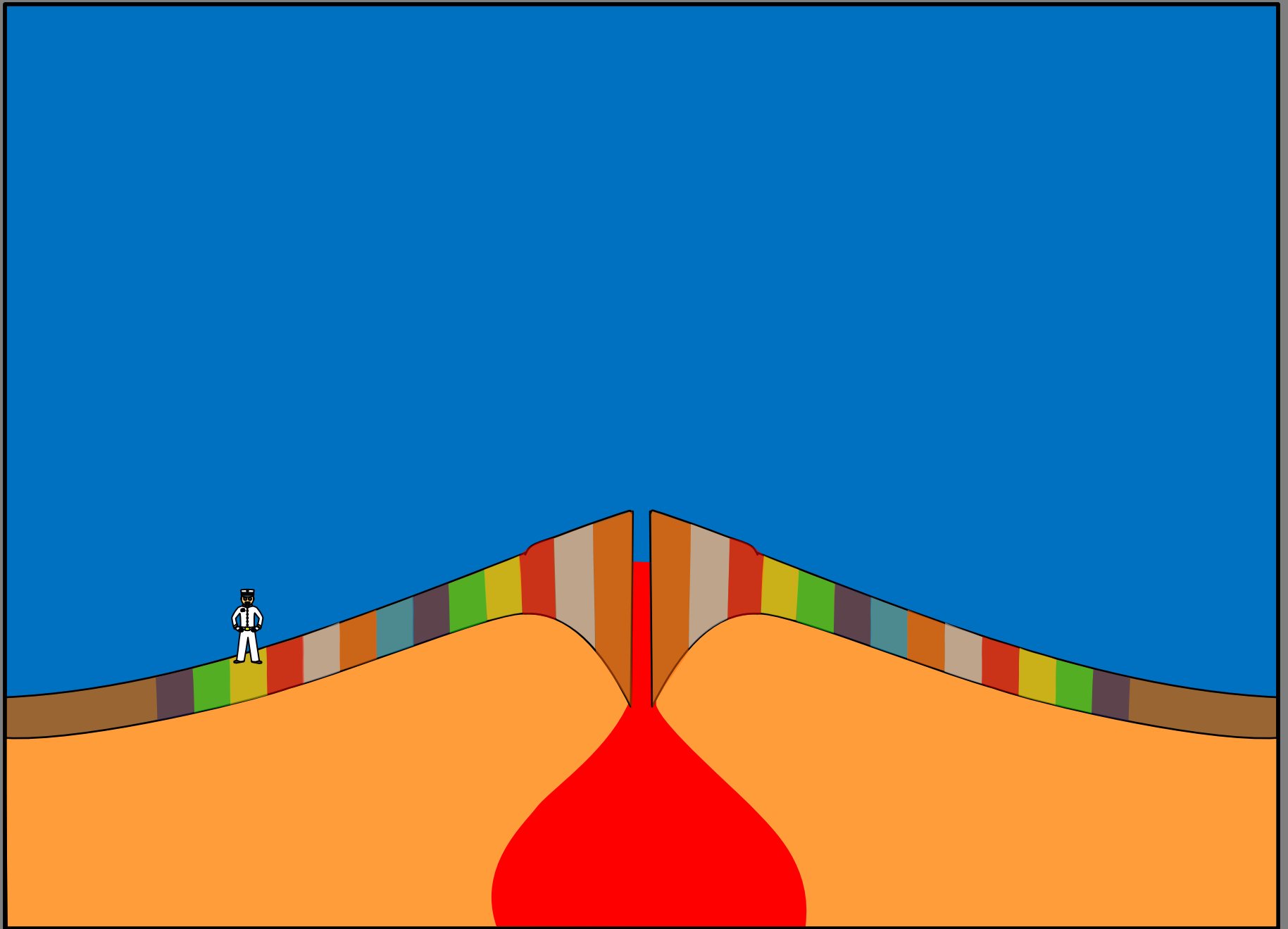


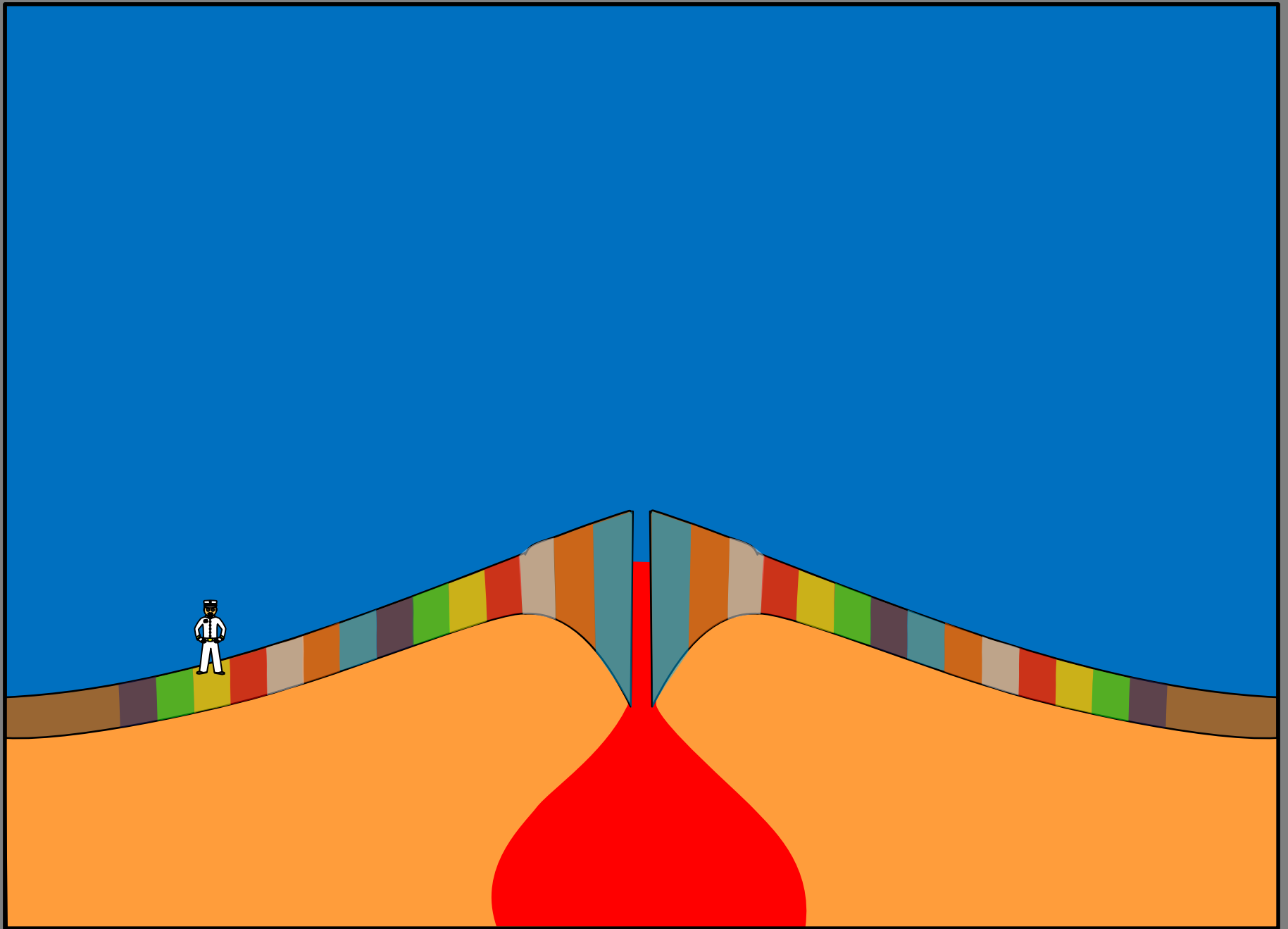


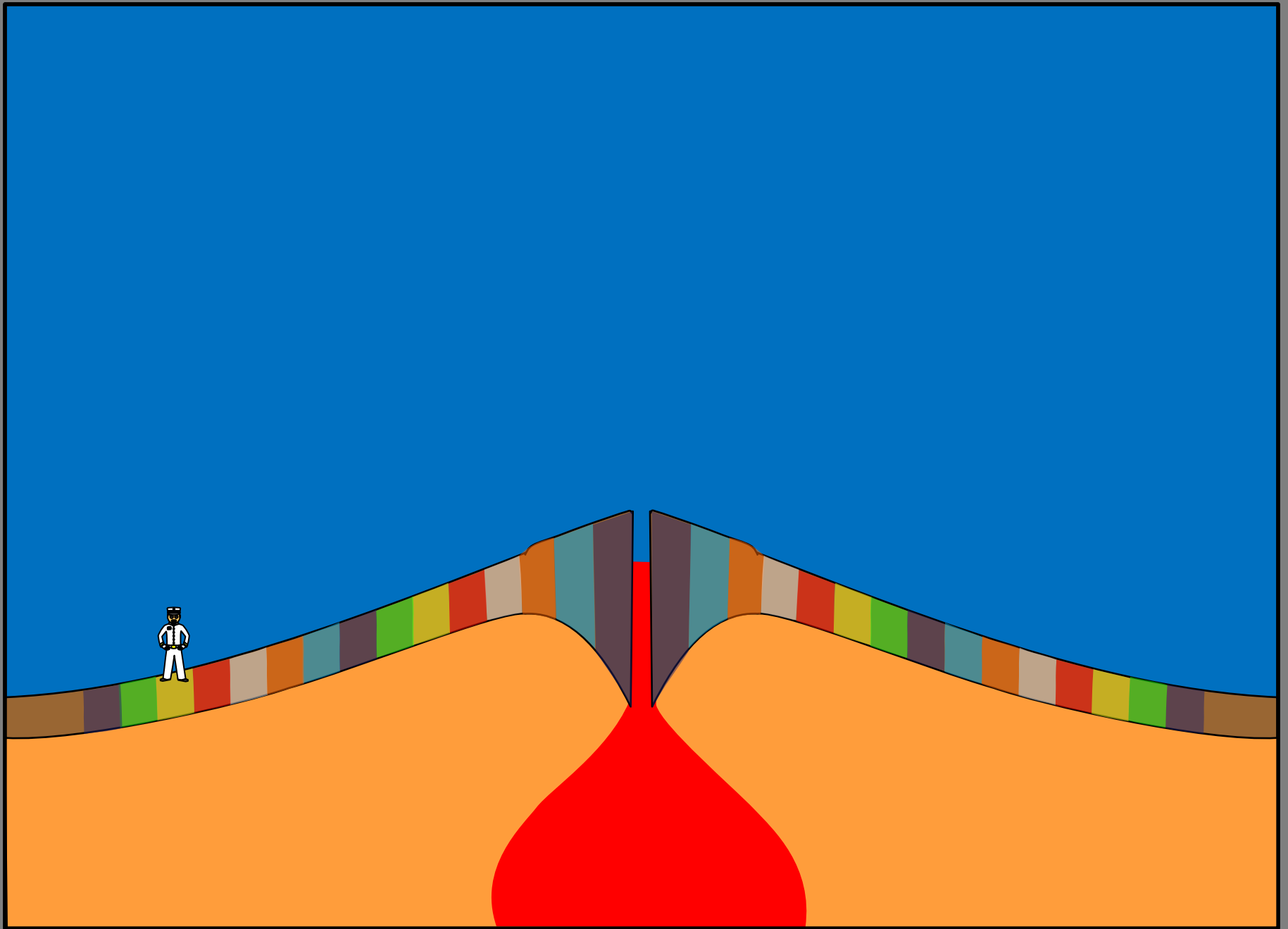


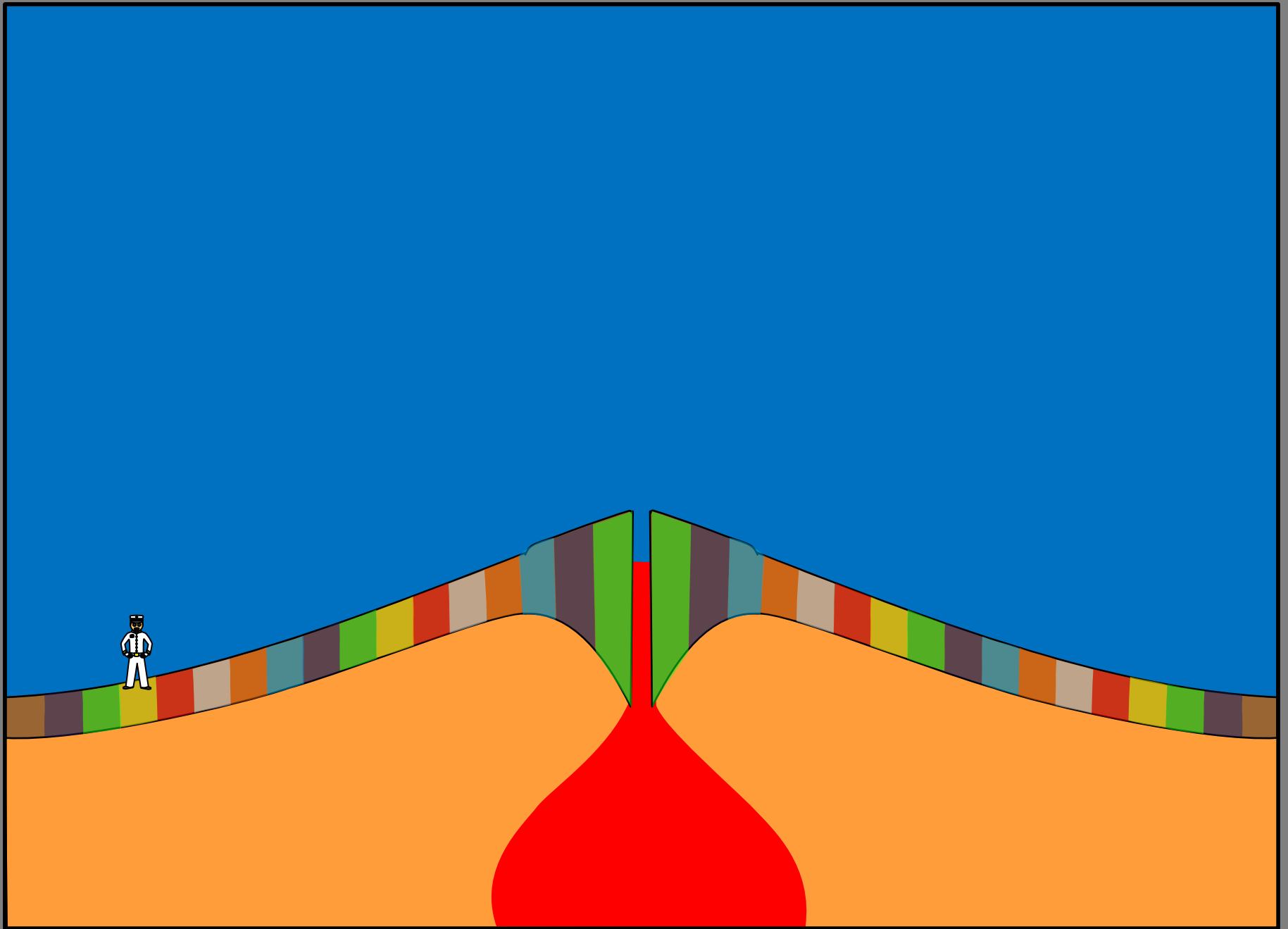


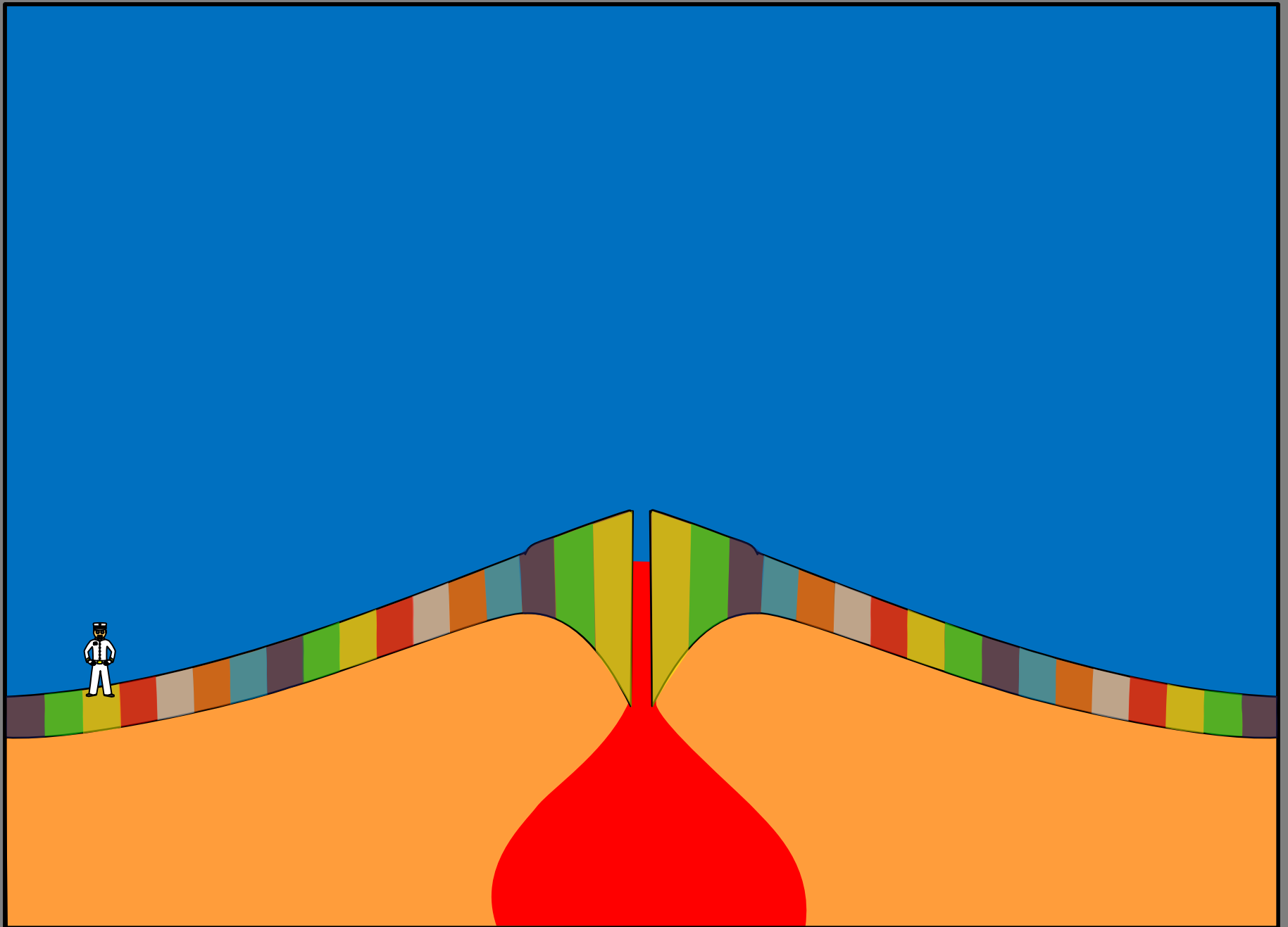


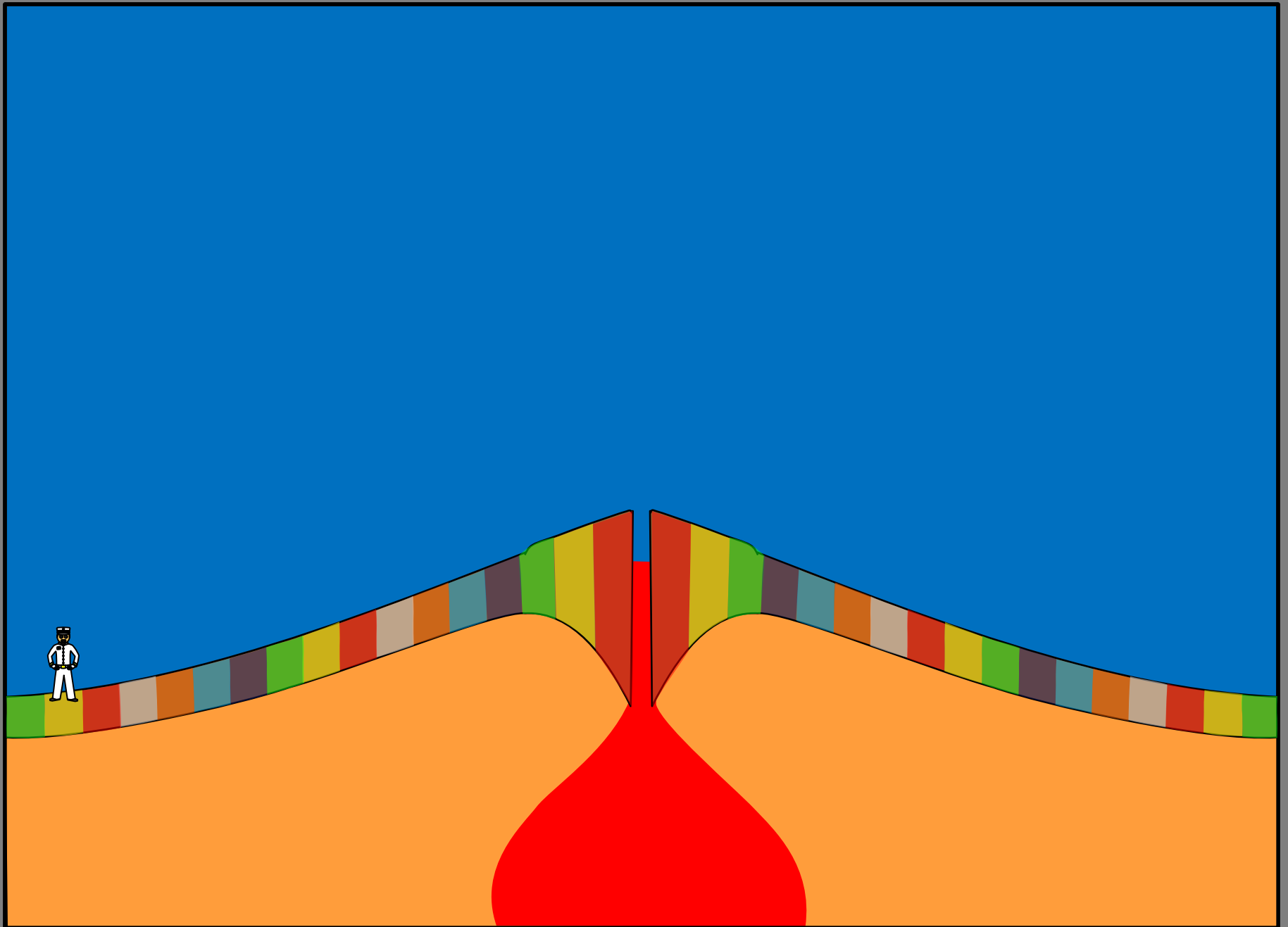


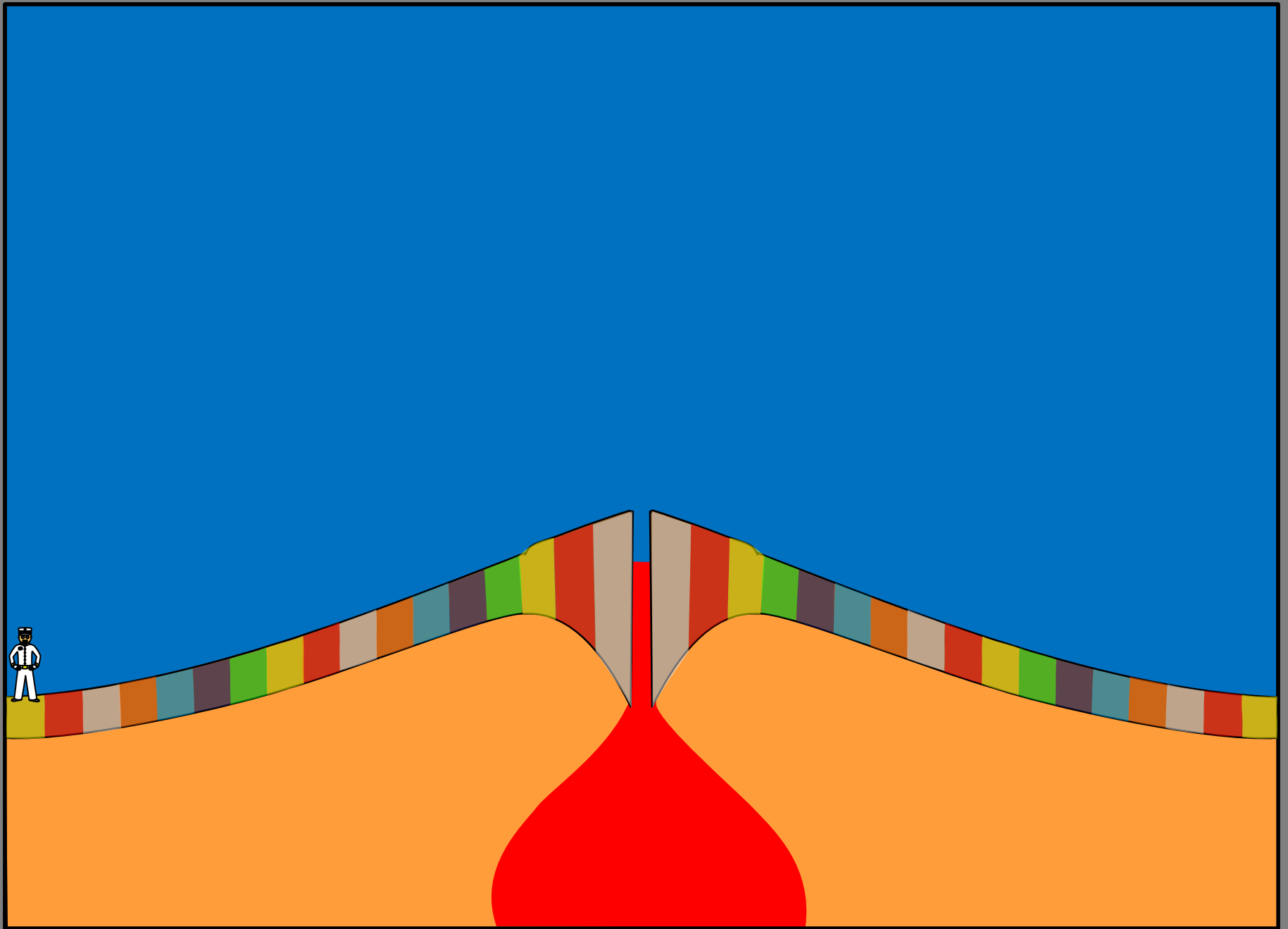




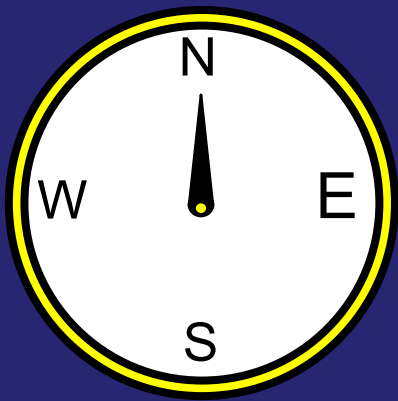
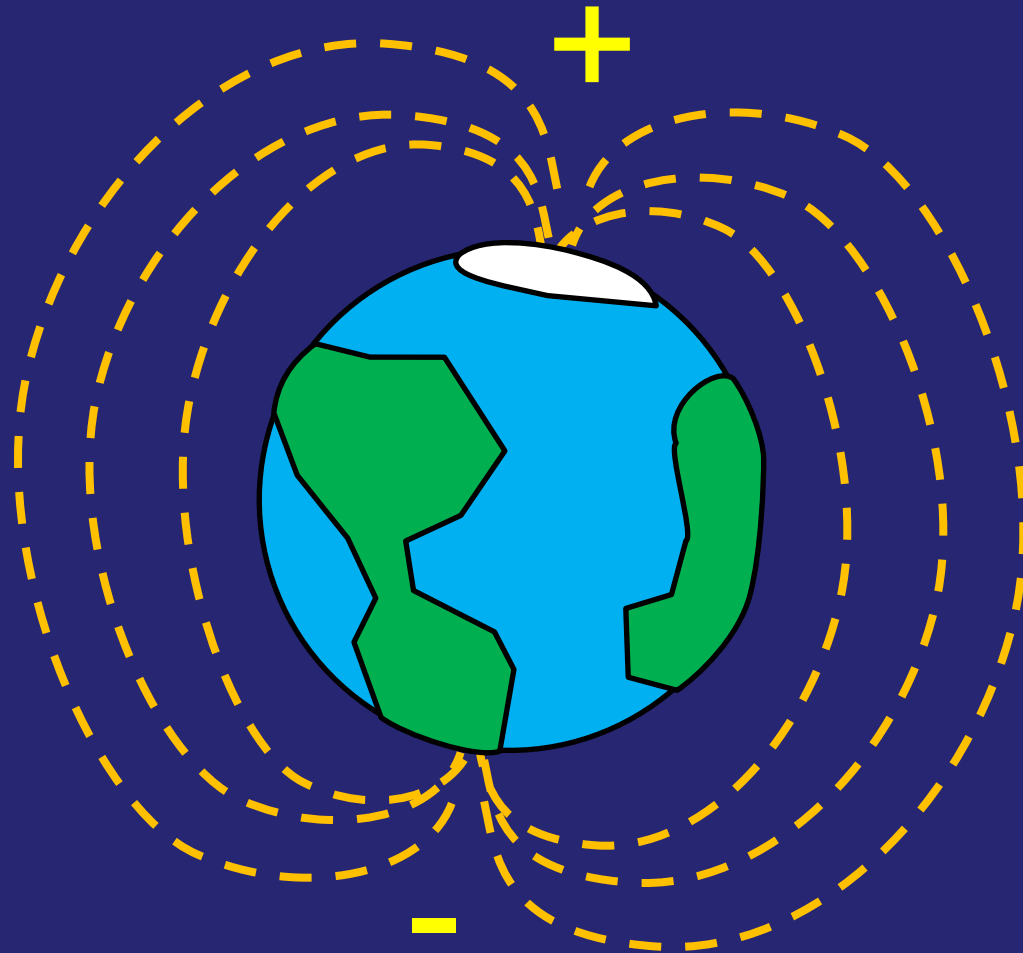


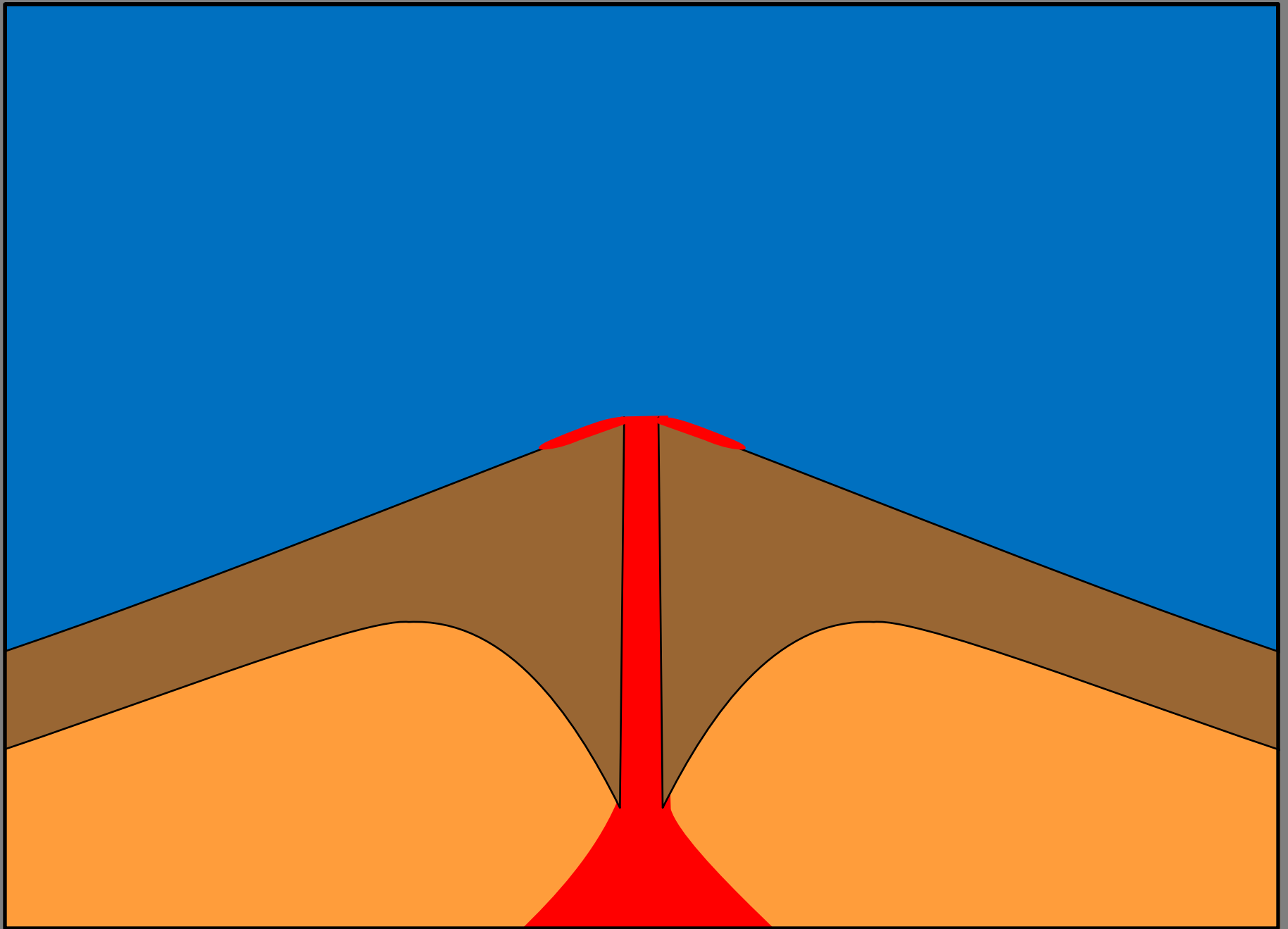


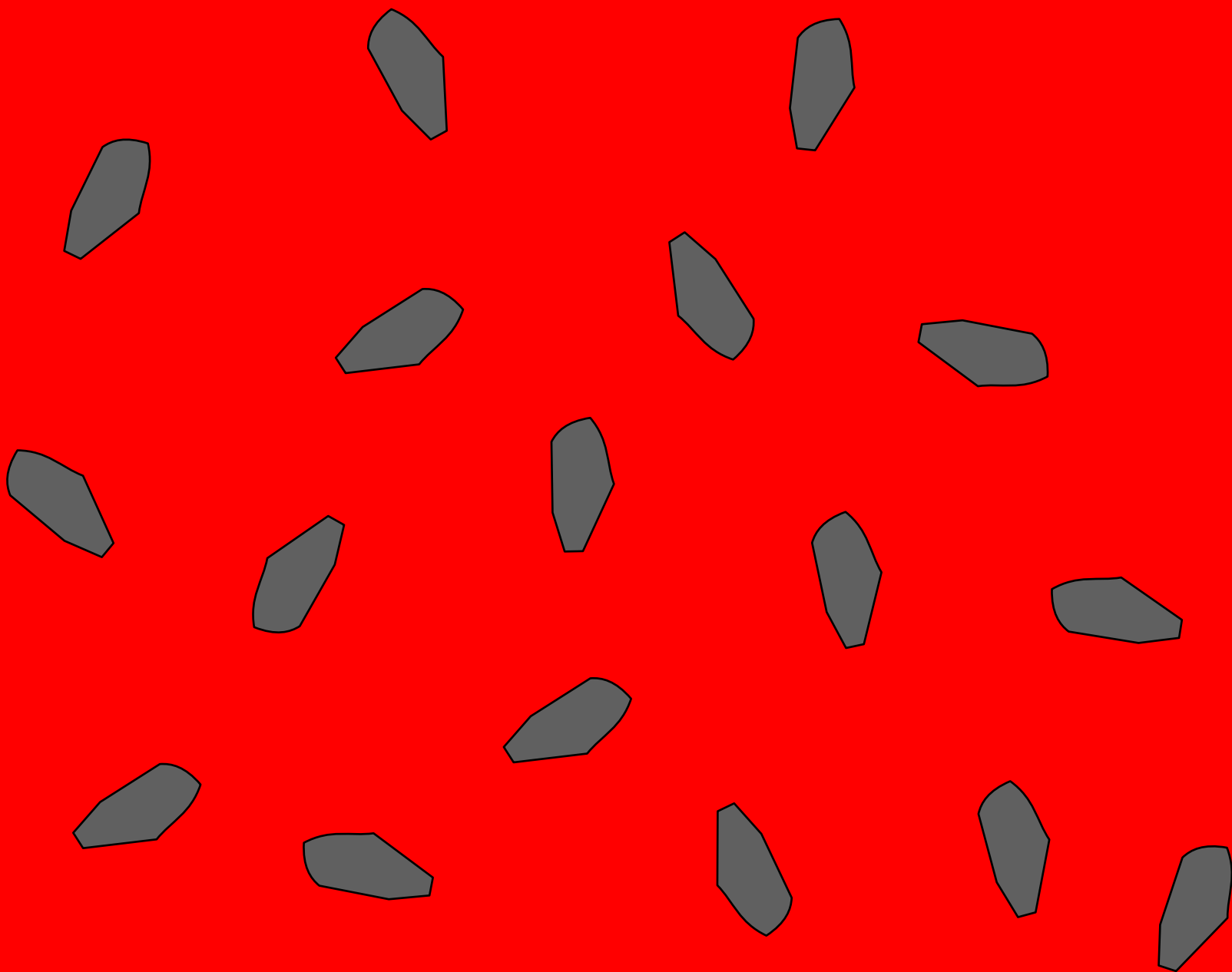


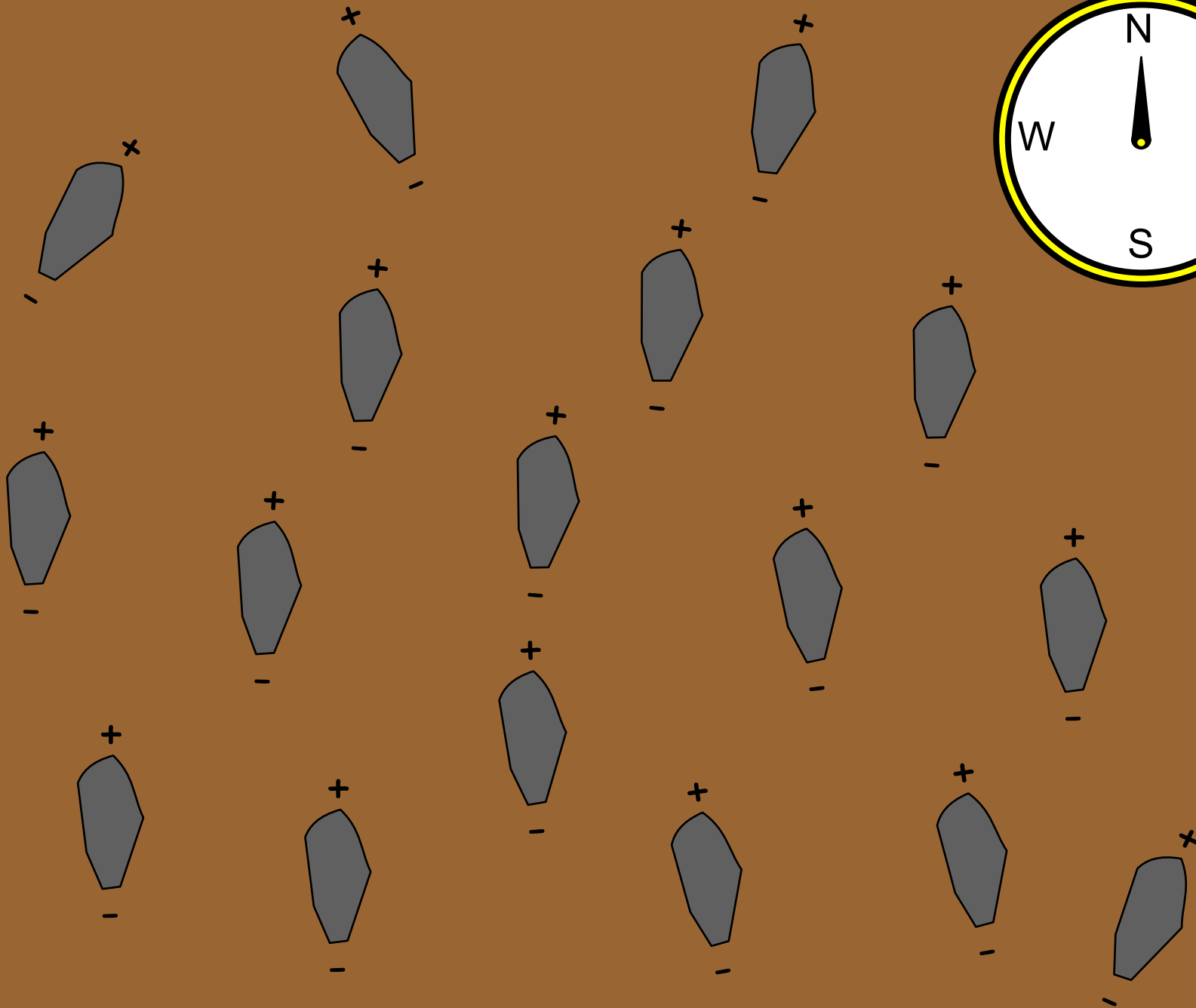


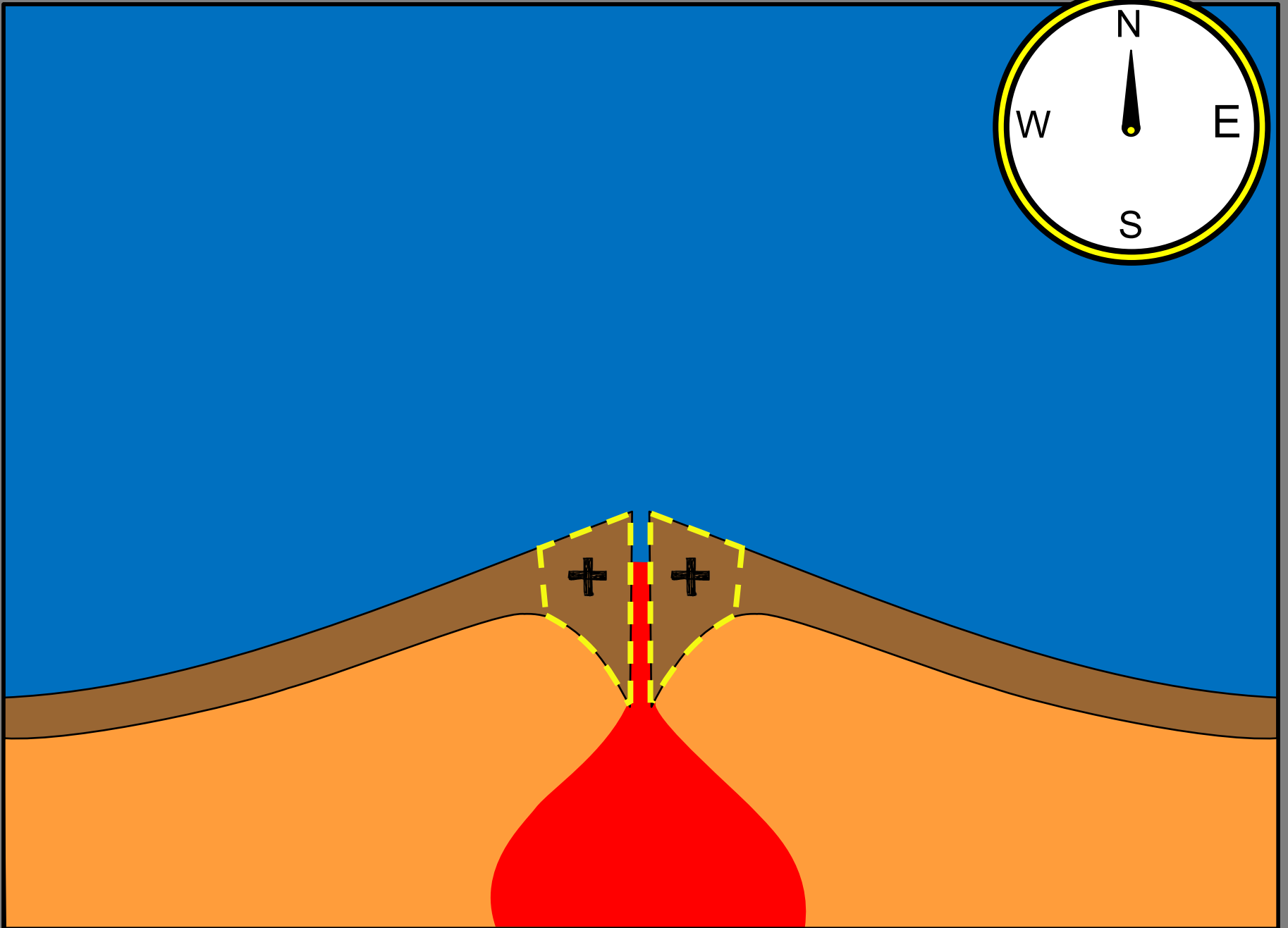
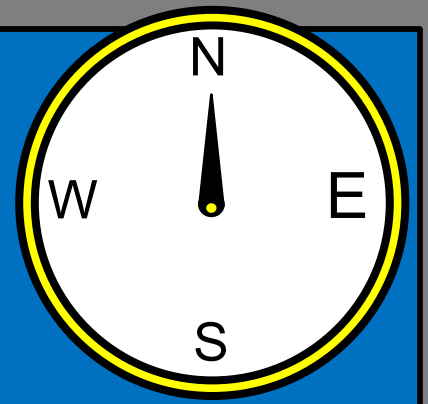
Magnetic Stripes

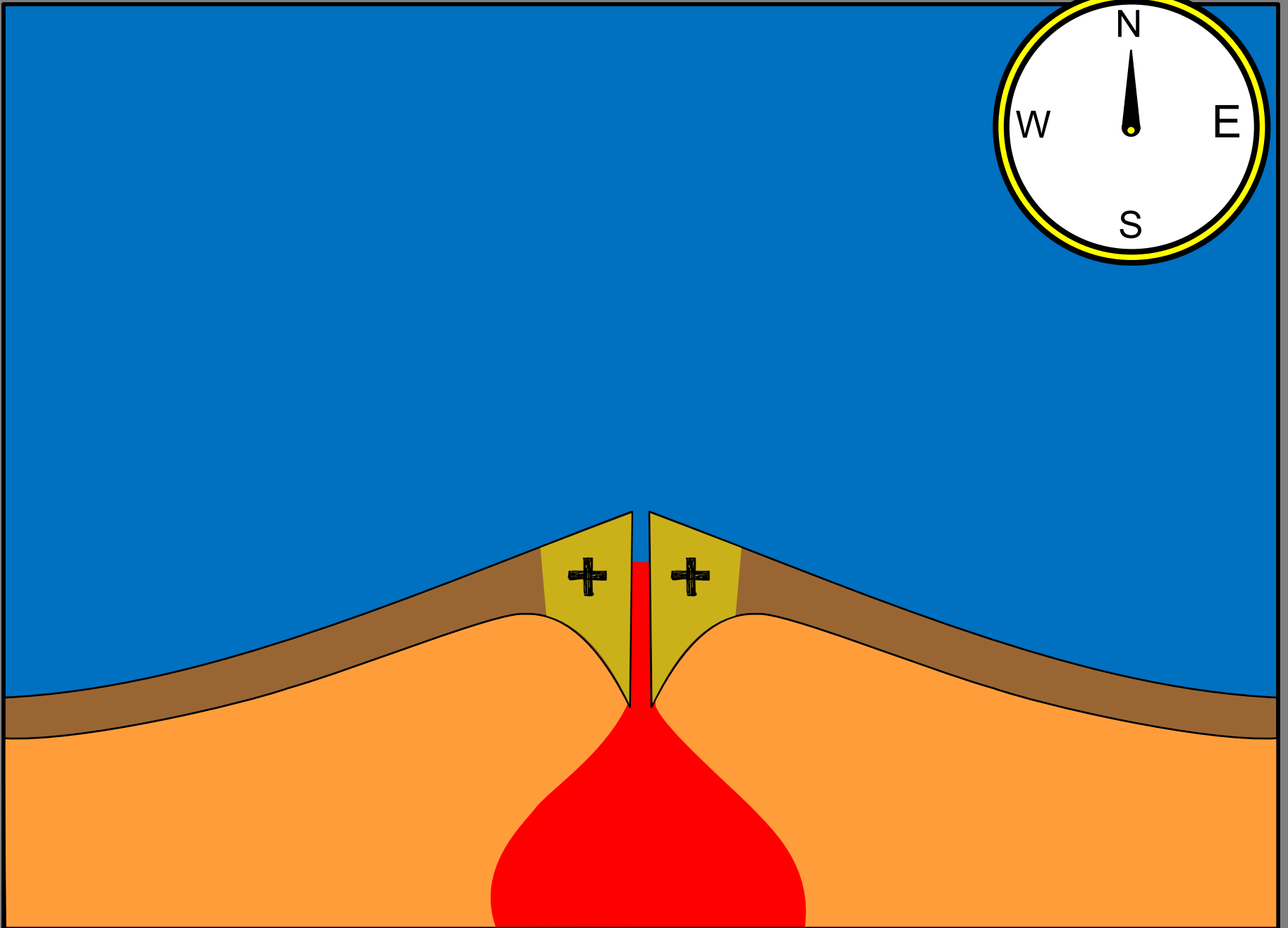
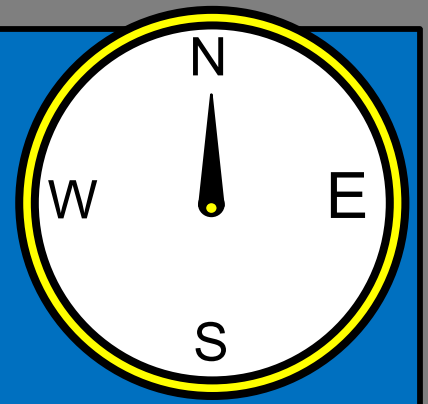


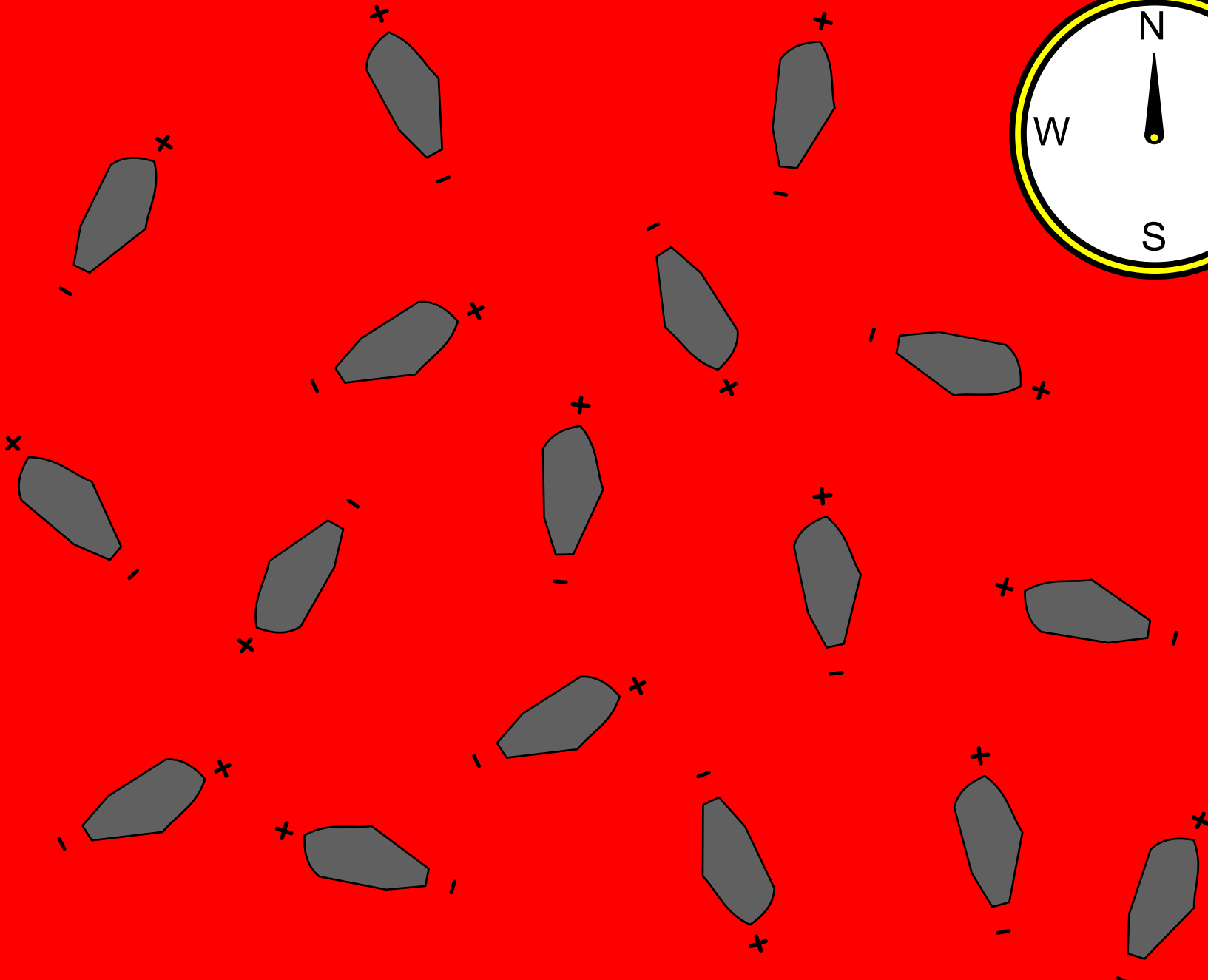
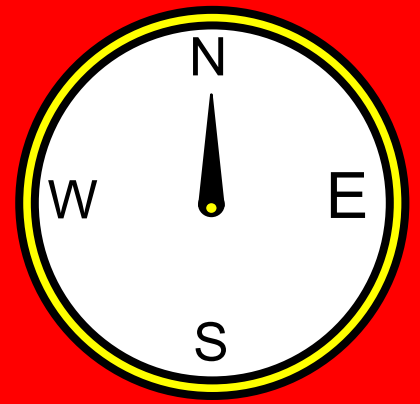


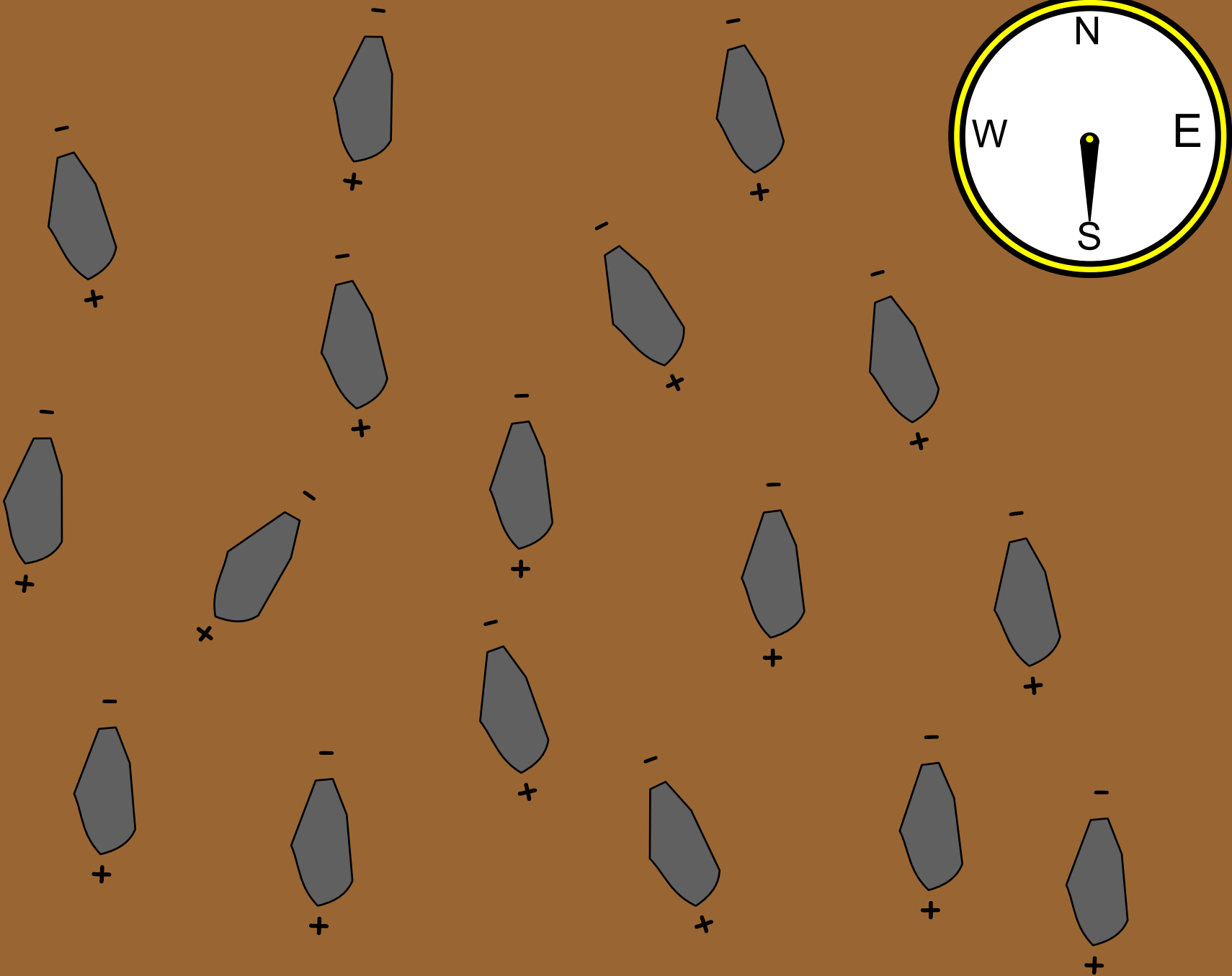


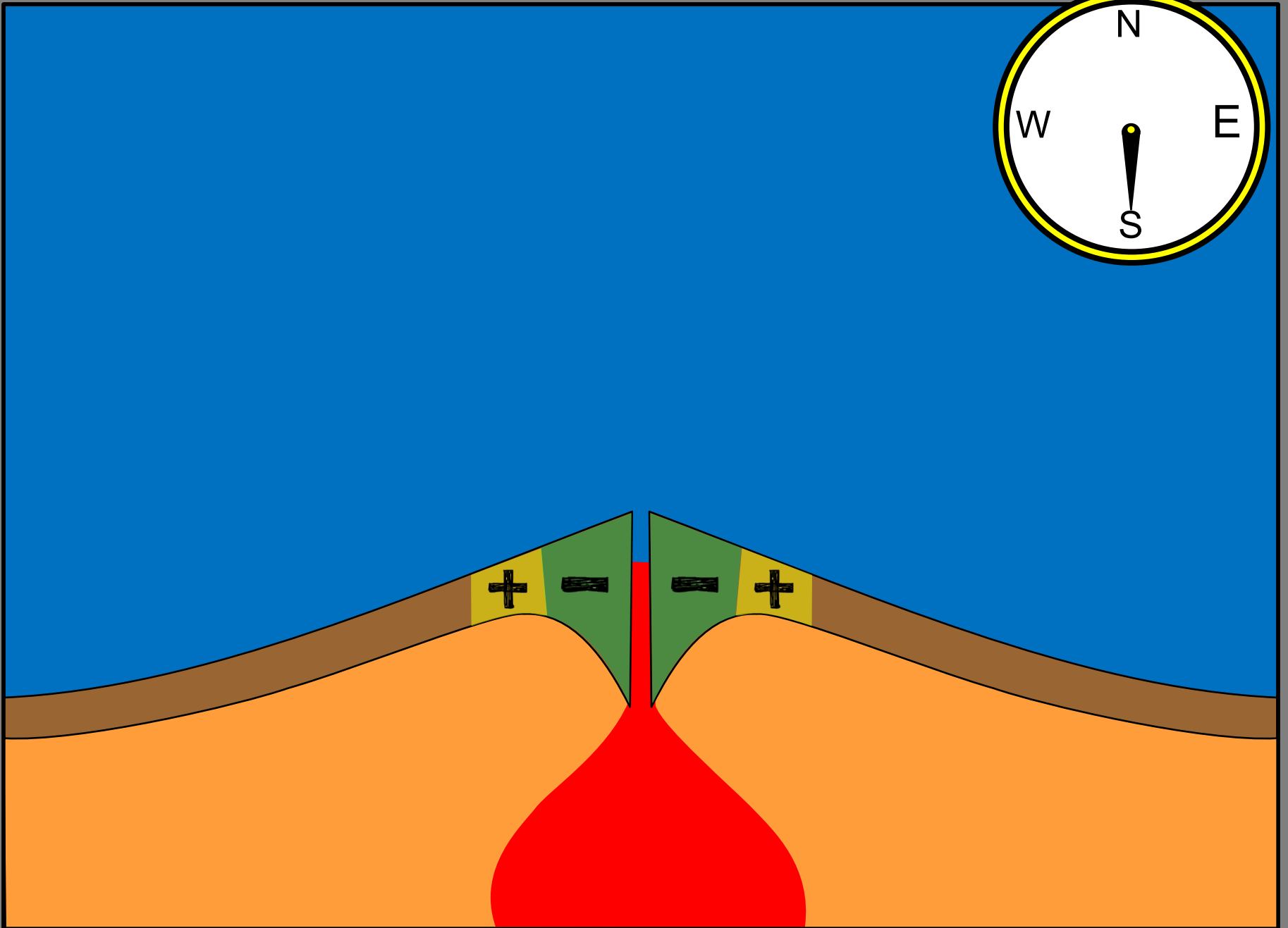
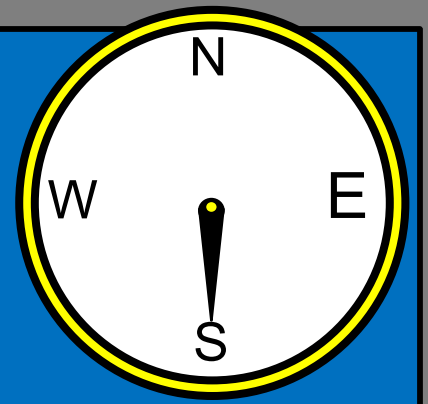


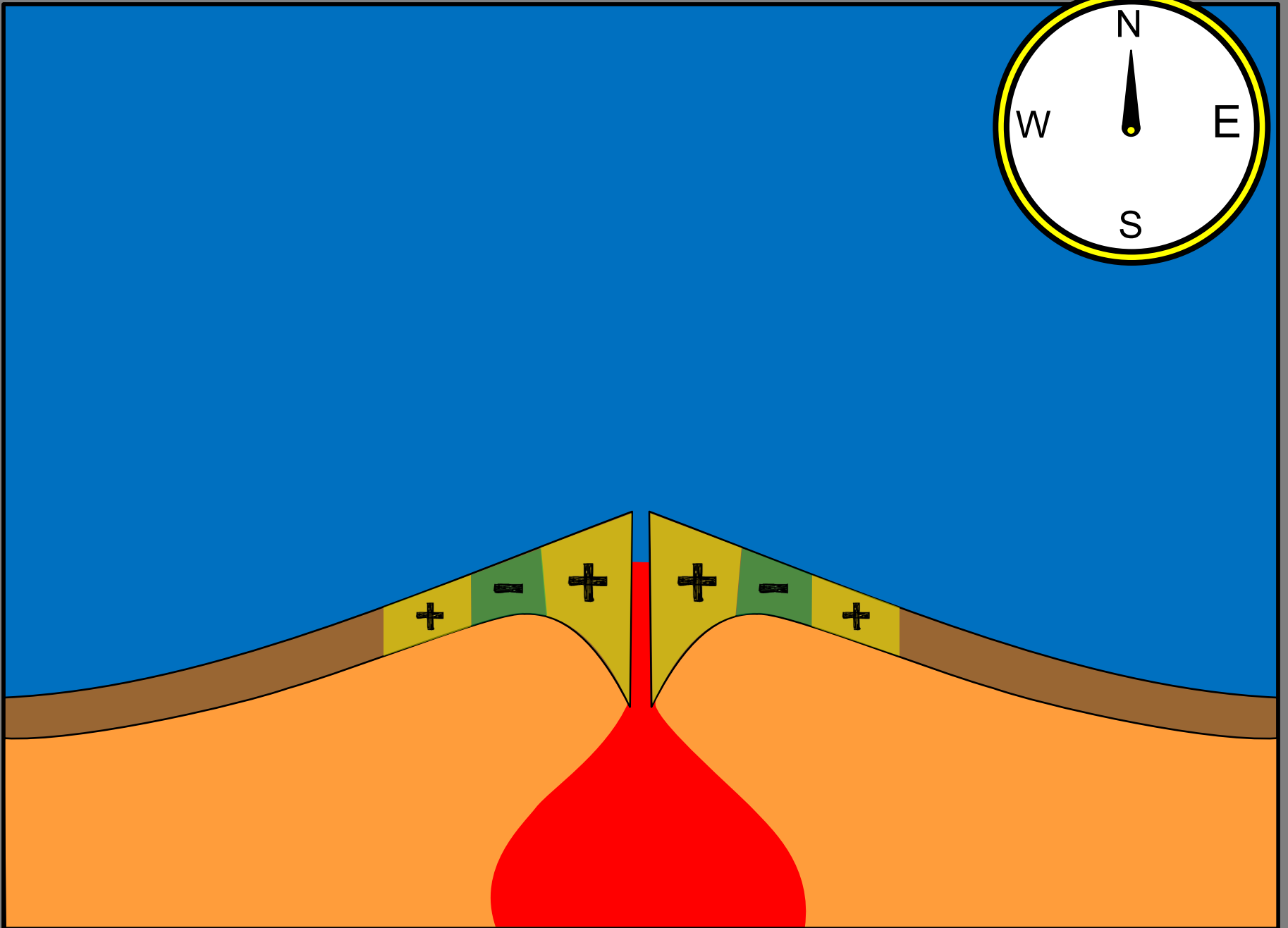
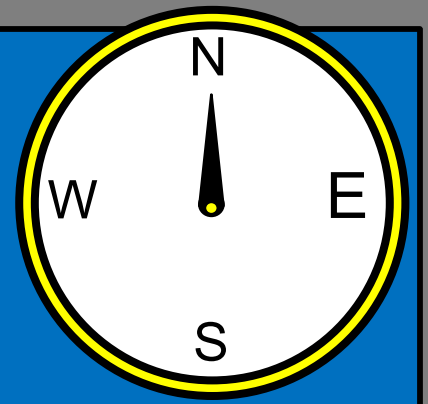


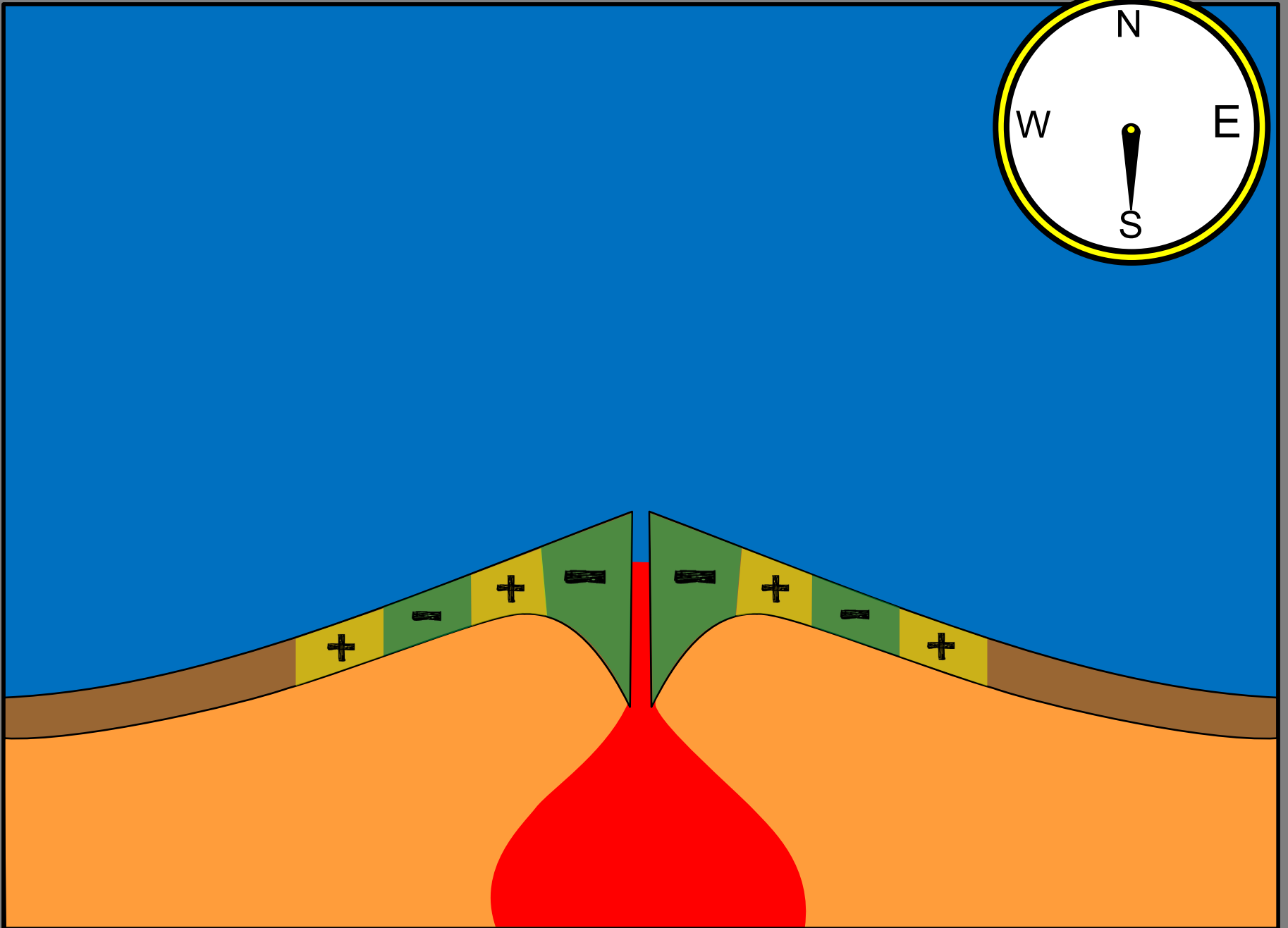
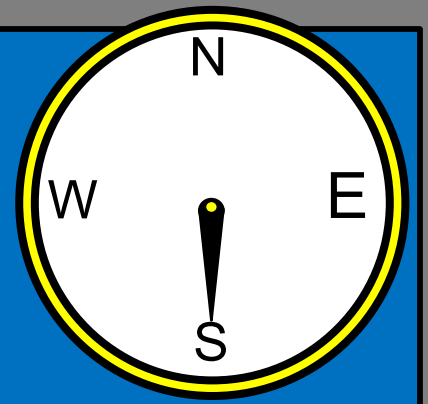


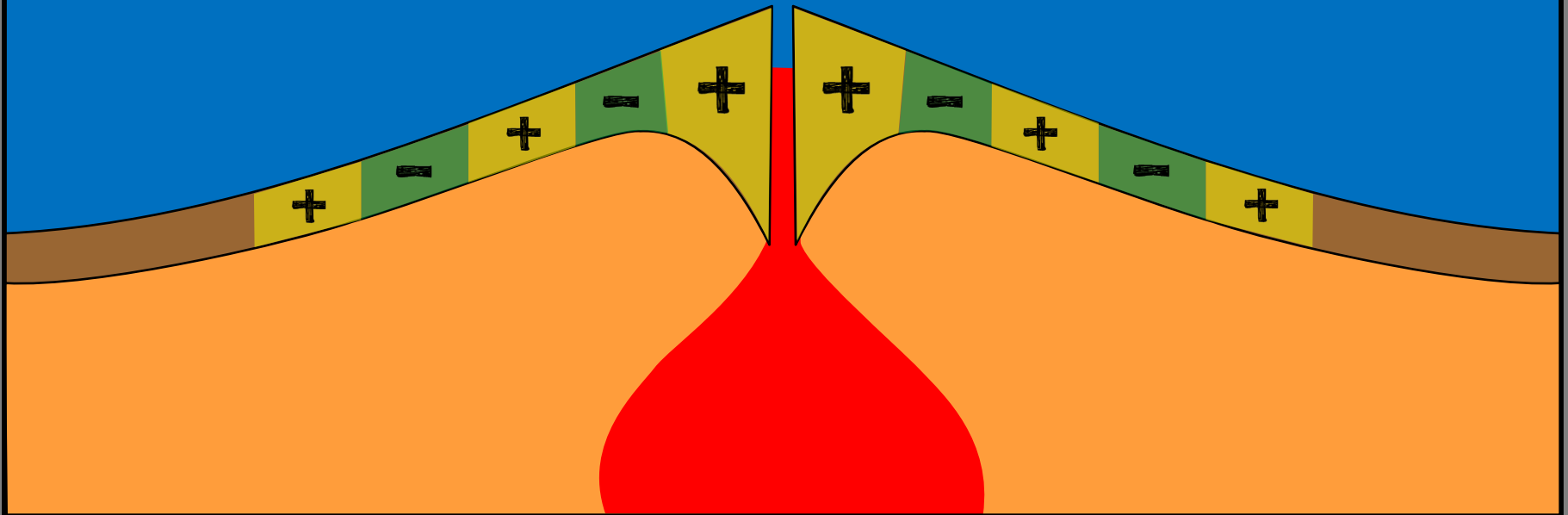
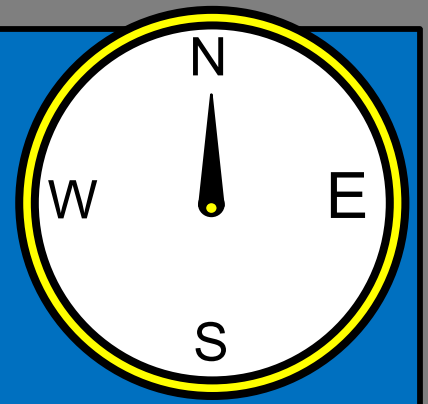


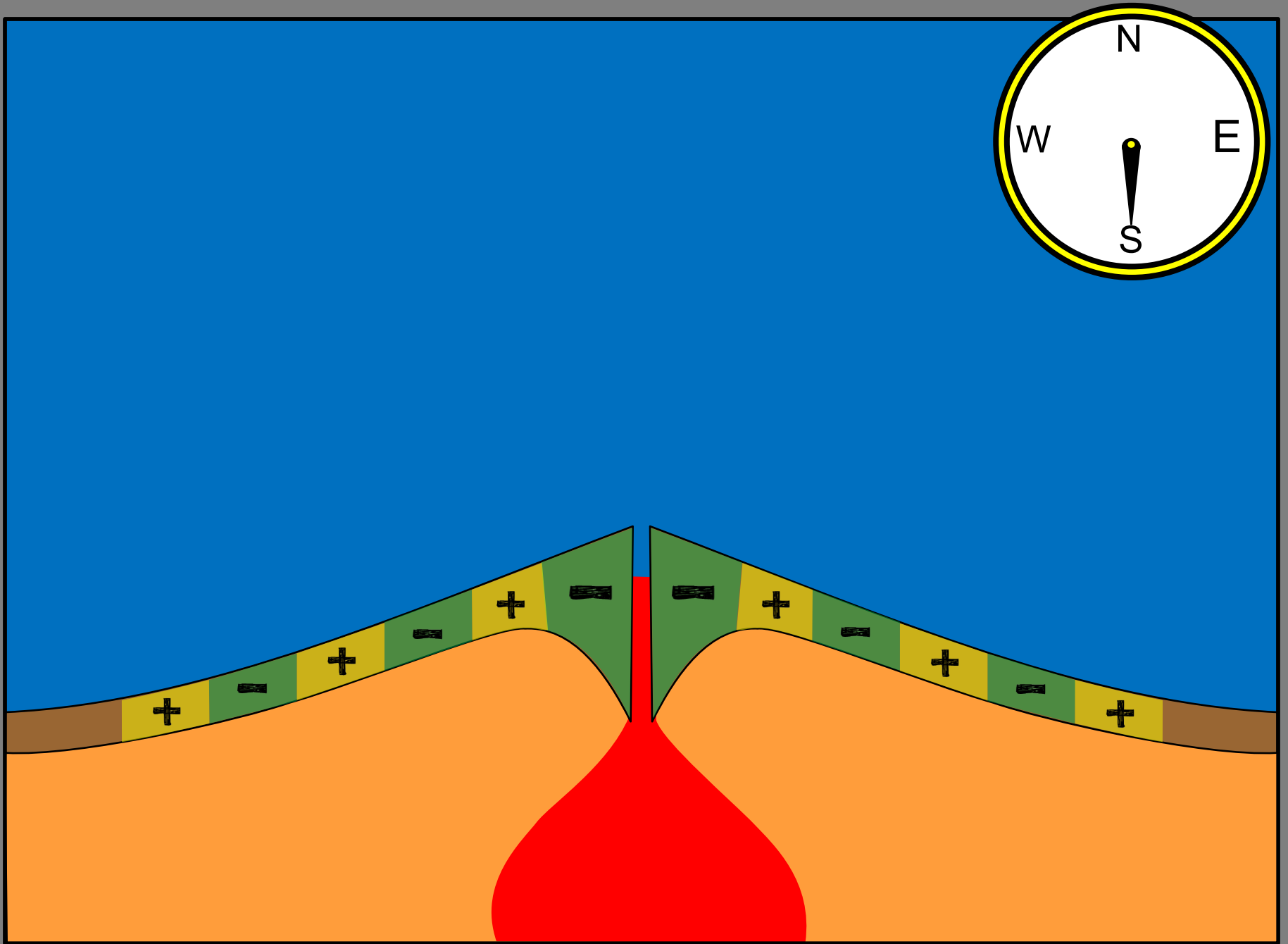


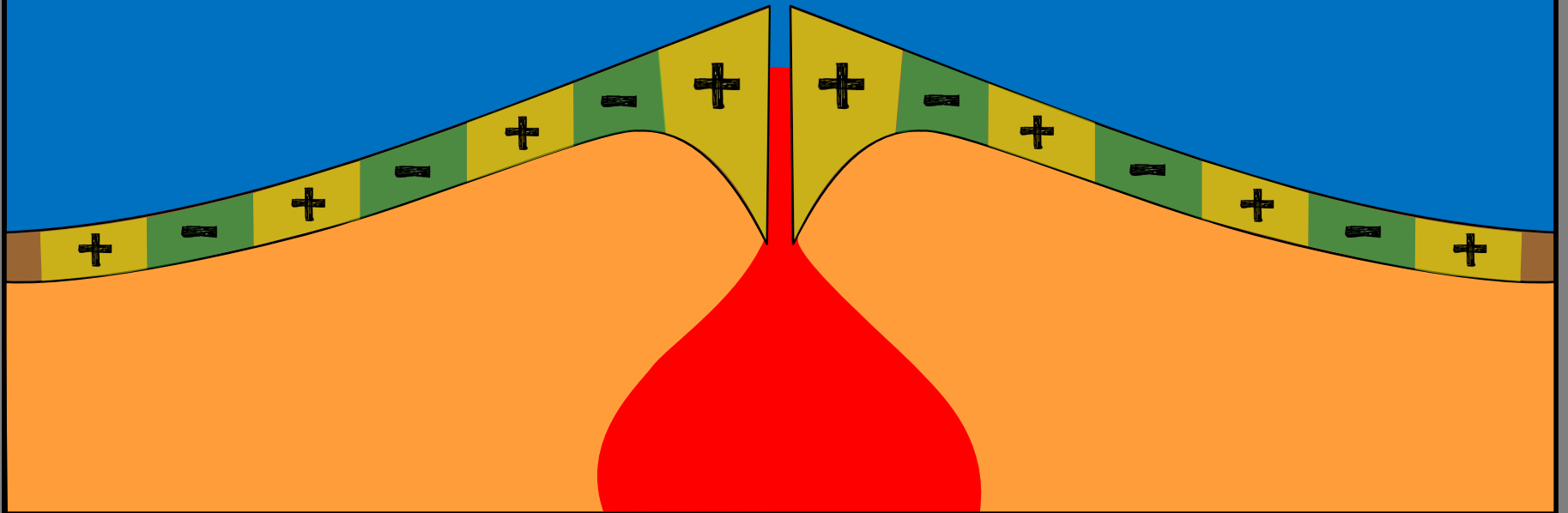
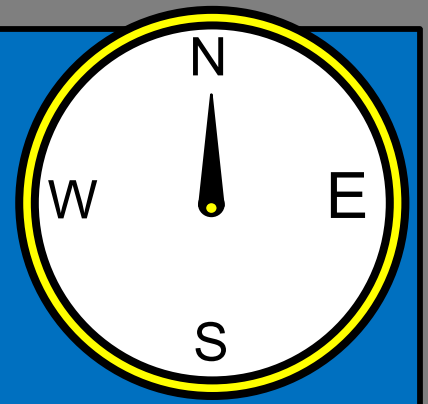


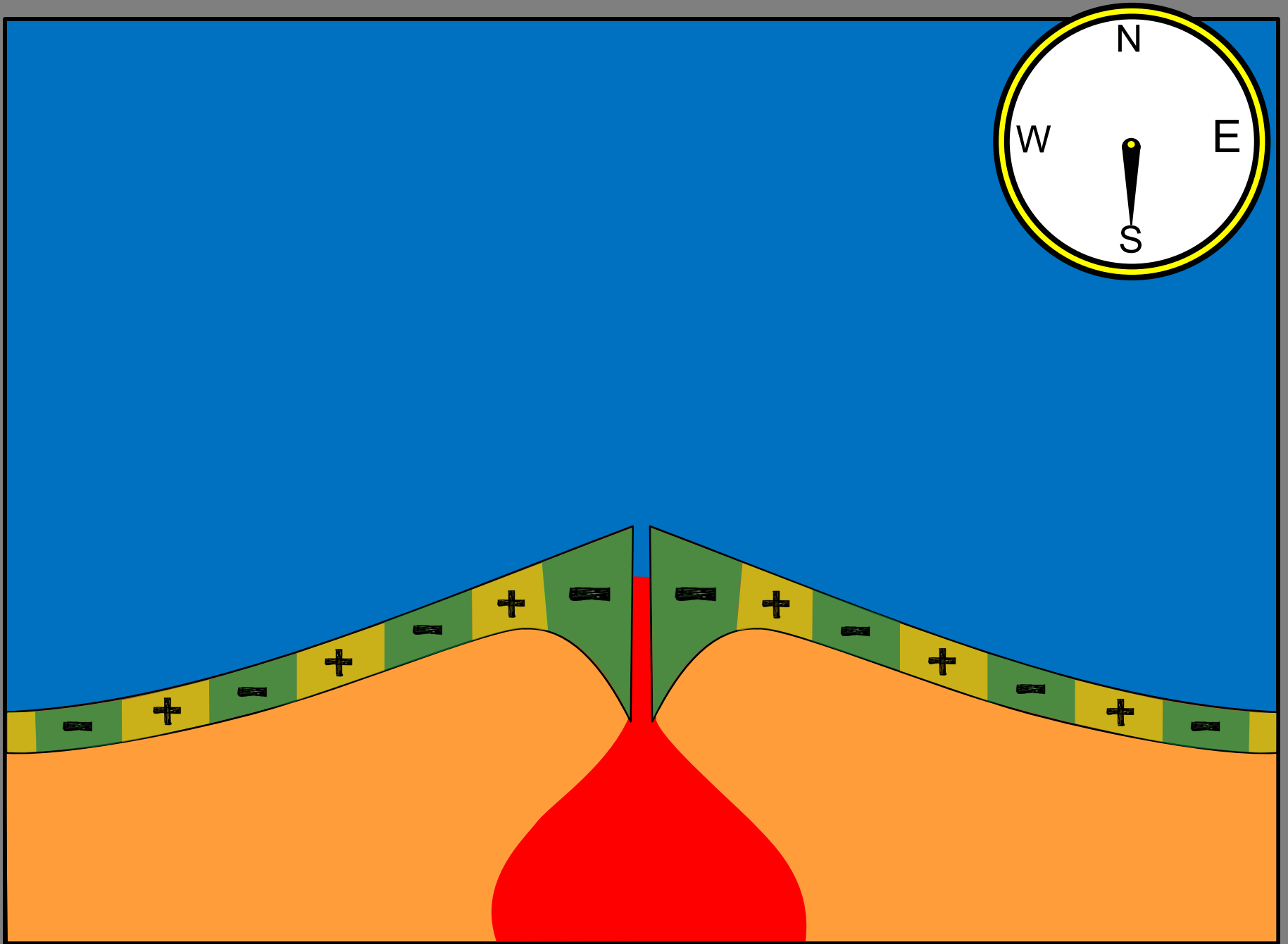


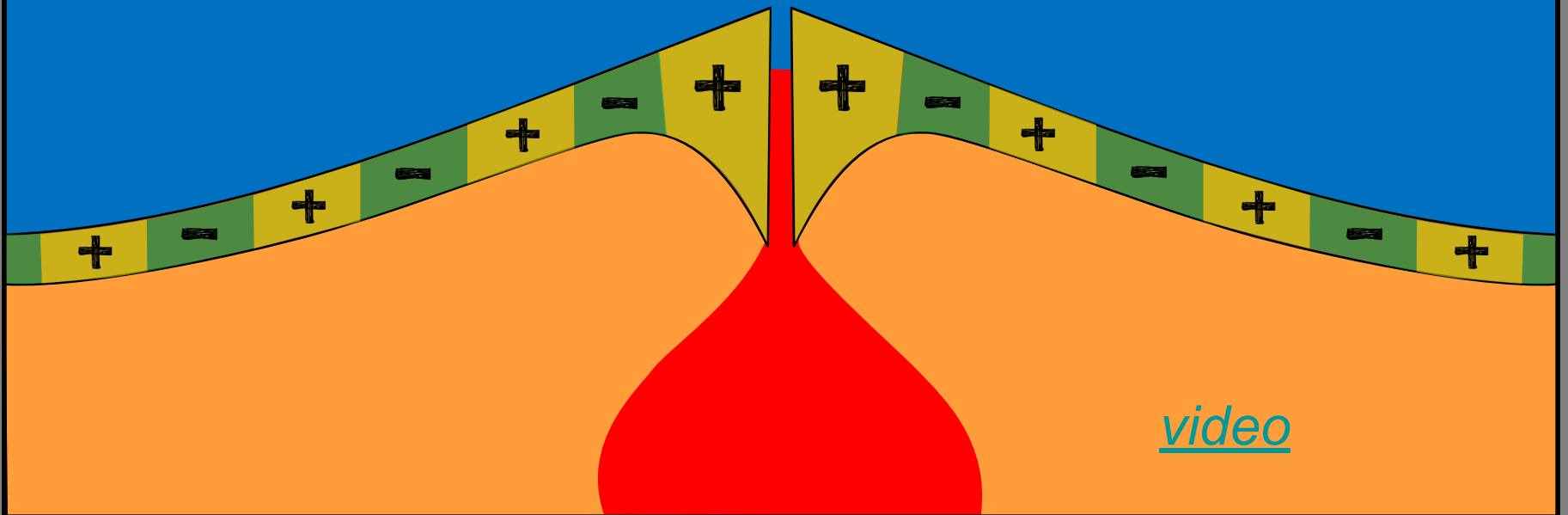
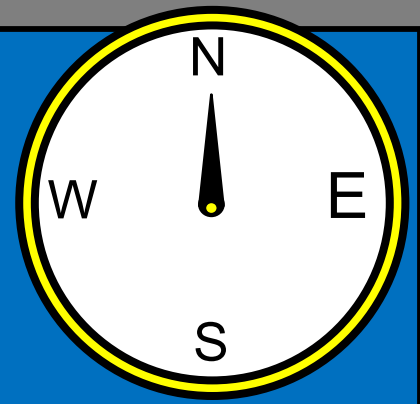












[video](#)

Harry Hess's Sea Floor Spreading

