name	student number	

General Geology 1: the basics

2 November 2020

1.	Isostasy.	topography	and	vertical	movements
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1.1 What is isostasy	What is isostas	y?
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1.2 What are the main	factors controlling the	topography of the Earth?

The image on the side shows the distribution of elevation/bathymetry of the Earth

1.3 Describe the main features and patterns you see and define (on the image) the homogeneous domains

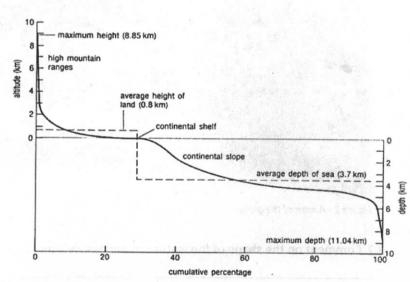
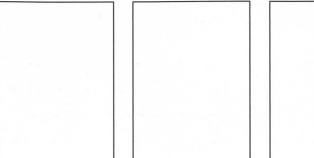
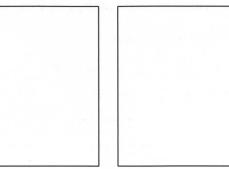


Figure 1 - Topography/bathymetry distribution in the Earth

1.4 What **lithospheric** configurations do you expect in the subsurface of the homogenous domains? Make drawings in the boxes below





2. Climate

2.1 The picture shows an image of the globe: draw the isotherms over the entire map

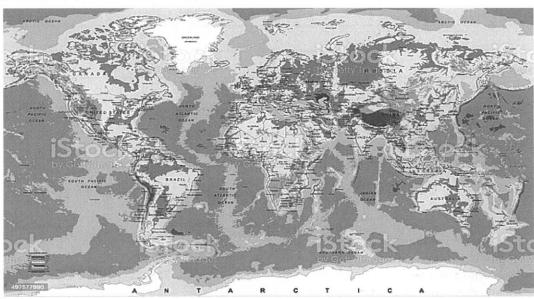


Figure 2 - A map of the globe

2.2 Comment on the shape of the isotherms and justify your choices

2.3 What are the main processes controlling the distribution of temperatures on the Earth?

3. Marine sedimentology 3.1 Rivers are the most important agent transporting sediments to the sea. Depending the amount of sediments and the regime of currents, estuaries or deltas can form. Draw a map view of the two 3.2 Describe the main features of the two maps 3.3 Focus now on deltas. In the box below, draw a vertical cross section across a delta, the fluvial plain to the fully marine domain. Provide horizontal and vertical scales.	name	student number
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	unded by the UK, Scandinavian countries and the Netherlands, is inental shelf. What kind of sediments do you expect to find? How
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4. Deformation	
Joints:	
Stylolites:	
Veins:	
4.2 Draw them in the blo	ock diagram below
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4.3 If shortening persists which ones?	s, then deformation will be accommodated by other structures,