Задание 2 ( deadline 02/04)

Ex. 1 p 38

Ex. 2a p 38 (due to the diagram + the video)

Ex. 2c p 39

Ex 3c p 39

Ex. 4b p40 (audio)

Ex 5a p 40

**Draw a sketch and write a short description.**

Ex 6a p 40 (аудио/видео файл выслать)

Ex 6с p 41

Ex 10 p 42

Ex 13a p 43

Ex 14 p 44

Ex 15 a, b, c p 44

Ex 15e p 44

Ex 16b p 45

Exercises

1

write text

2a

1. The Earth has four layers: the inner core, outer core, mantle and crust. The crust and the top of the mantle make up a thin layer on the surface of the Earth, but rather than being continuous, this layer is made up of a number of pieces, called tectonic plates.

An earthquake is caused by a sudden slip on a fault. The tectonic plates are always slowly moving, but they get stuck at their edges due to friction. When the stress on the edge overcomes the friction, there is an earthquake that releases energy in waves that travel through the earth's crust and cause the shaking that we feel.

2 Researchers found that intraplate earthquakes — which occur in the middle, instead of at the borders, of tectonic plates — are influenced by convection, or heat-driven movements, of the molten mantle beneath the planet's cold, solid crust. If the minerals in the mantle stay strong at high temperatures and pressures, it will take longer for the temperature and pressure to build up enough for an earthquake to occur.

2c

A – powdered mineral sample

B – tube of rolled rhenium

C – ceramic octahedron

D – two tungsten-rhenium thermocouple leads

E – tungsten carbide cubes

F – six secondary anvils in the press

3c

1 – B

2 – A

3 – B

4 – A

5 – C

6 – A

4b

1. Use linking words to make the stages clear (but not too many)
2. Combine sentences

5a

1. First
2. Was
3. Which
4. Then
5. At
6. Which

Scetch

6a

Video?

6c

1. Differential stress in the olivine and perovskite samples will go up with pressure
2. Perovskite will be stronger than olivine, that means, it will yield later
3. For olivine, increasing the temperature will reduce yield strength
4. For perovskite, increasing the temperature will reduce yield strength

10

Write text

13a

1. Surprising
2. Similar
3. Appears
4. Possible
5. Possibly
6. Unlikely
7. Possibility
8. Likely

14

Write text

15ab

1. D
2. I
3. H
4. K
5. B
6. C
7. J
8. G
9. F
10. E
11. L
12. A

15c

1. ↓
2. °C
3. K
4. ≥
5. +
6. v/v
7. w/o
8. 2:1
9. h
10. conc.

15e

1. RT
2. 378 K
3. Δ
4. K
5. ↓
6. 7
7. conc.

16b

1. share
2. notes
3. search
4. changes
5. group’s
6. safer