Geology CR - Tasks

1. Practice reading with proper intonation - waving at underlined words.

Although the Czech Republic only covers a small part of the Eurasian <u>continent</u> (78 790 <u>km</u>²), it is very rich in geological resources, | and evidence <u>suggests</u> | that the country's land mass has been developing for nearly 2.5 billion years. <u>Hence</u>, | when you look at a geological map of the <u>area</u>, | it is possible to see a rich mosaic of colors.

2. Ask about the underlined part of the sentence.

In its geological history, the land area of the CR was covered <u>several times</u> by shallow and sometimes even deep seas.

The area was also affected by volcanic activity, old folding, tropical and even glacial climates.

The border with Slovakia is located along the young Alpino-Carpatian mountain belt.

<u>Geological events</u> moved many rocks deeper into the earth's crust which was then metamorphosed by high pressure and/or temperature.

and were <u>partially</u> uncovered by surface geological activities.

3. Intonation again - When you give the list of examples, change the tone (the pitch) by lowering your voice, unless you want to emphasize the items.

For these <u>reasons</u>, it is possible to find all well-known types of rocks which settle on the bottom of seas, lakes or rivers (*sandstone*, *conglomerate*, *slate*, *limestone*, *coal*, *sand*, *gravel etc*.), <u>metamorphic rocks</u> (*phyllite*, *gneiss*), deep <u>igneous rock</u> (*light granite and dark gabbro*), and volcanic rocks (*black basalts*, *light phonolite and andesite*).

4. Learn the following paragraph from memory to inform your foreign guest.

It's also possible to find many fossils in the sea and lake sediments.

A large number of these fossils were originally discovered in the CR, especially from a fossil-rich area in the SW vicinity of Prague known as the Barrandian, named after the famous paleontologist Joachim Barrande (1799-1877).

The most famous fossils which Barrande discovered were the trilobites.

You can find beautiful collections of minerals and fossils, including Barrande's collection, in the National Museum on Wenceslas Square in the center of Prague.

5. Use the words from the clue to fill the missing words in the text.

abundance of (twice)	constr ores	ruction raw (1	exhausted twice)	generation substantial	medieval varied	
Because		the Czecl	h Republic's	geolo	ogical composition	, an
		of mineral	l deposits exist.	At the present ti	me, deposits of co	al are used as
	materials	for the		of energy, and de	eposits of granites,	basalts,
sandstones, 1	imestones,	sands, clay	ys and gravels a	as m	aterial for	
and the coun	try's well-k	nown cera	mic and glass i	ndustries.		
The poly met	tallic (copp	er, lead, tii	n, zinc) and pre	ecious metal (gold	l, silver) deposits v	were mostly
	durir	ng the cour	ntry's long mini	ing history and at	present have no	
	ec	onomic va	ılue. Graphite d	leposits are	local imp	portance.
Extraordinari	ily rich dep	osits of sil	ver greatly inci	eased the importa	ance and developm	nent of the
Czech state i	n		times. The ex	ploitation of rich	uranium	in
the recent par	st caused gi	reat damag	ge to the enviro	nment.		

6. Find the synonyms (words with similar meaning) in the text below to fit the following meanings:

Precious stones =

Diversity =

Interesting part of geology are gemstones. The best known types of Czech jewelry are moldavites, garnets (pyropes) and a variety of quartzes (agate, jasper), which were used to decorate some of the country's historical landmarks, such as Prague's St. Vitus cathedral and the castle at Karlstejn.

7. Underline the key words and paraphrase the last paragraph to inform your foreign guest.

The morphology of the earth's surface is determined by the geological composition, rock quality and rock resistance. In the small area that in the present days CR covers, it is possible to find, with the exception of big mountains and deserts, most types of landscapes.

Some impressive sights are the 25 M year old preserved volcanic landscape in NW Bohemia (the dark blue color on the map), with its occurrences of so-called "geological organs", extensive rock cities (some of these rocks are up to 100 M years old) in the NE part of Bohemia, with rock-towers, bridges, canyons, table mountains and areas of karst with caves which are richly decorated with stalactites (especially in the Moravian karst area).

Source: most probably Czech Geological Survey

Adapted and provided with tasks by Věra Hranáčová, CJV RMU 2011