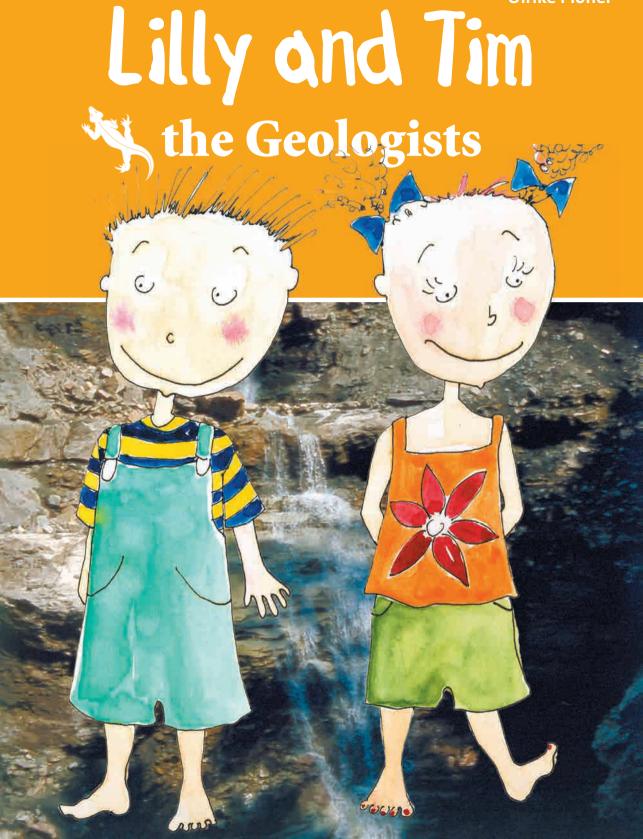
Ulrike Ploner







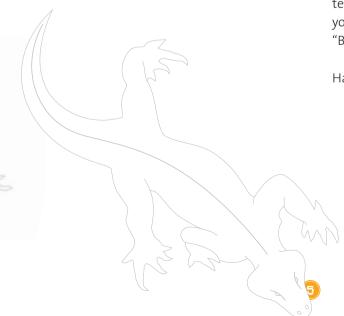


Dear children!

We welcome you in our information-center of the Bletterbach-canyon. We are glad about your visit and hope you will take pleasure in geology and in our hiking tours. To be prepared for this adventure, Lilly and Tim, our Bletterbach-specialists, will give you some tips and instructions. They already know everything about the canyon, about the rock's structure and about fossiles, but also about hiking in groups and about the right behaviour when wandering throughout nature.

On the last page of this booklet, you can test your knowledge by solving a riddle. If you find the right solution, you will get the "Bletterbach-certificate".

Have a lot of fun and good luck!



Here are Lilly and Tim, our Bletterbach-experts! They will lead you through the canyon and tell you everything worth knowing. But before you start, have a look at some good pieces of advice:







How to behave in the forest and the canyon

Lilly and Tim show us how to do it:

Good shoes

Tim firmly believes that you can only enjoy hiking if you wear stable, robust shoes. This is why he prefers wearing climbing boots. Lilly likes her climbing boots, too. Although she cannot admire her polished toenails anymore, she knows: good shoes give you foothold and a sure step!





Dogs on the lead

When Lilly and Tim take their dog Bello with them on a hiking-tour, they put it on the lead. So no other hiker has to be afraid of the dog and Bello cannot chase other animals.







Outfit

For their hiking-tour both take a rucksack with them. They pack some food and drinks and also a raincoat into it. So Lilly and Tim are prepared for any kind of weather.



Behaviour

Lilly and Tim cannot stand hikers who wander through the forests screaming and being noisy. They make such troublemakers aware that noise frightens animals and it disturbs other hikers.





Footpaths for hiking

Lilly and Tim always remain on the marked footpaths so they do not create new beaten tracks. They always remain together, so nobody gets lost and in case of need they can help each other. This is especially important when making hiking-tours!



Rubbish

The children get very angry if they find rubbish in the forest or in the canyon, left behind by stupid, careless people. This can be very upsetting, after all everybody can take back home his or her own rubbish!





And now ...

... just one more remark: Enjoy your stay in the canyon. Take your time to play, too. The Bletterbach-canyon offers uncountable possibilites.

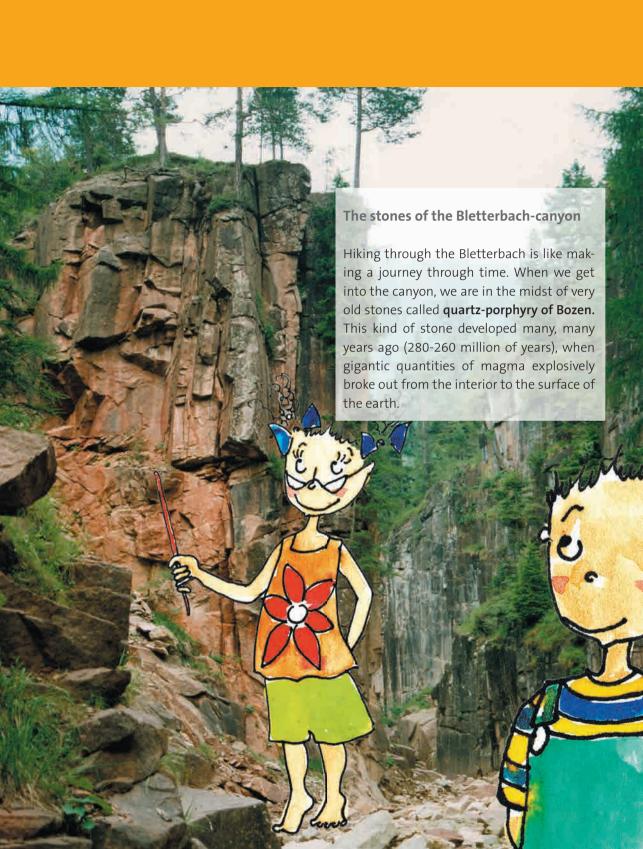


We have been arrived-

Lilly can tell us a lot:

Bletterbach, this is really a strange name which could cause some confusion. Do we write the word Blätter (German: leaves) with an e instead of an ä due to the German orthographical reform? Do not worry: You still write it with the German Umlaut ä. The Bletter of the compound Bletterbach (German -bach means brook) is derived from the old verb blettern which means to flow.

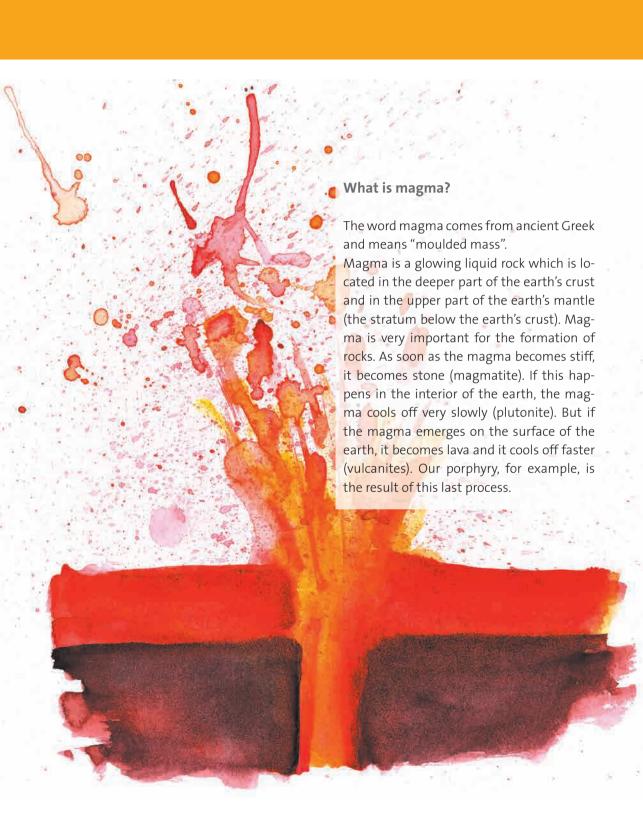




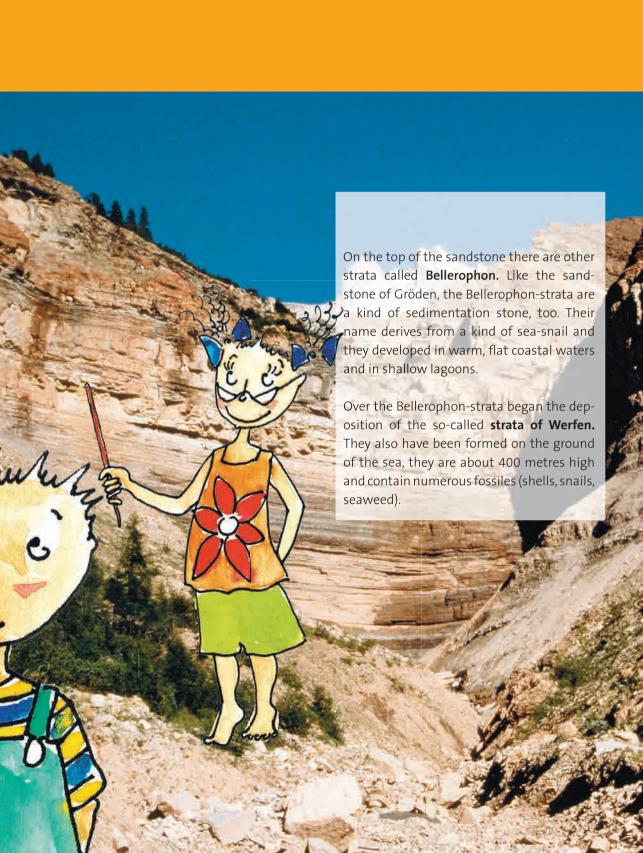
The magma got cold, coagulated, grew stiff and became stone. The **quartz-porphyry of Bozen** is the oldest stone we can find in the Bletterbach-canyon and it lies deeper than any other kinds of stone.



Older stones lie deeper, younger stone-strata lie above







What are fossiles?

Fossiles are remnants, vestiges or also prints of animals and plants which lived during the geological period. Because of various reasons some of these living-organisms did not decay after their death, but kept and conserved their original form. This often happens by petrifaction. Living-organisms are buried under the mud, so that they cannot decay, and are interspersed by more and more minerals; so after a certain time they become stone. Sometimes a putrefying animal leaves a hollow space or a cavity in the rock, which is then filled with minerals. Although the animal is not there anymore, its form remains conserved. You sometimes find little animals locked in amber: in cold regions fossiles are also created by the freezing in of animals, for example of mammoths.





Prints in the sand (-stone)

The Bletterbach-canyon is a paradise for scientists. In the strata of sandstone, petrified footprints of at least 20 different kinds of animals were found till now.





Now the soil has to dry out and to get hard. After this the footprint will be filled up with new mud, which has been washed ashore by a brook. Our footprint is now covered with a new stratum of mud. It will also dry out and get as hard as stone in time.

If we divide the two petrified strata, we get two prints of Lilly's foot: a depression on one stone slab and an elevation on the other, positive and negative.



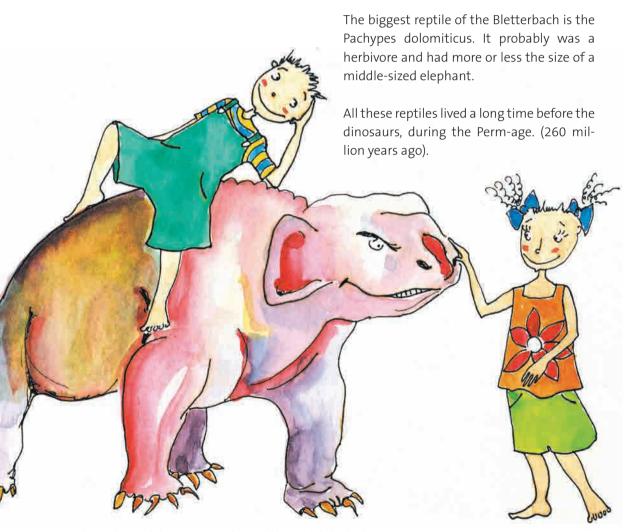
Lilly's footprint seen from a lateral perspective, filled up with sediment (mud).



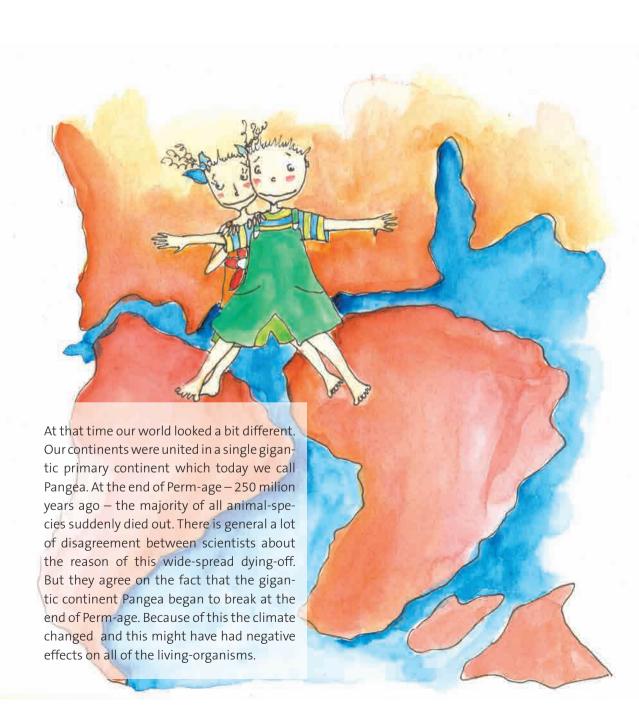
positive footprint



negative footprint



The Pachypes dolomiticus maybe could have had this look.







Those who have been attentive and who understood everything, surely have no difficulties in solving our short quiz. So let us snap a pen and show what you know! The one who is able to solve the riddle is a real Bletterbach-pro and gets a certificate in the information-center in Aldein or in the museum of geology in Radein. In any case, a visit is worth your while!

Atricky

Lilly and Tim now will ask you some tricky questions. Those who have been attentive, surely have no difficulties in solving the following riddle. With the right solution, Bletterbach-specialists even get a certificate in the information-center in Aldein or in the museum of geology in Radein. We wish you therefor good luck and a lot of fun for your hiking-tour through the Bletterbach-canyon. We hope to see you soon in the information-center!

1.	What is the name of our canyon?	4.	Ideal footwear for hiking-tours
	Aldein		climbing boots
	Bletterbach		high-heeled shoes
	Dolomites		slippers
	How do you call the rock where many otprints of reptiles were found?	5.	Mountain near Aldein
			Marmolada
	Bellerophon		Weißhorn
	quartz-porphyry		Ortler
	sandstone		
		6.	Name of the gigantic continent
3.	Shoulder-strap bag for hiking		
			Panacea
	handbag		Pandemonium
	rucksack		Pangea
П	basket		



7. What is the word for the age of 250 million years ago?	11. Youngest stone of the Bletterbach-can- yon: of Sarl	
□ Perm□ Trias□ Jurassic period	□ granite□ dolomite□ gneiss	
8. Oldest stone of the Bletterbach-canyon: of Bozen	12. What kind of fossiles were left in the Bletterbach-canyon by almost 20 different kinds of reptiles?	
☐ dolomite		
□ sandstone□ quartz-porphyry	□ petrified eyes□ petrified footprints□ petrified bones	
9. Biggest reptile of the Bletterbach-canyon	13. What is the name of the glowing liquid rock?	
☐ Pachypes dolomiticus	☐ magnesia	
□ lizard	□ magma	
☐ Triceratops	□ crevasse	
10. Most important clothing for hiking (you put it into the rucksack)		
□ tutu		
☐ dinner-suit		
☐ raincoat		



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