

## **GROTTONEUM - RALLY**

### **Introduction**

There are 22 interactive and knowledge stations in the Grottoneum. These are all marked by a small bat, whose name is Fledi. Follow Fledi through the Grottoneum Museum and solve the following tasks.

Tip 1: Each solution is found in the corresponding Info Point.

Tip 2: The Info Points are marked on the Discoverers' Map, which is available at the Main Information Desk.

Good luck and have fun during your Discoverers' Tour in the World of Dripstones and Minerals.

### **Info Point 1**

#### **Knowledge Station**

How the miners got their light

Hundreds of years ago, the miners didn't have matches or torches. Write down what was used to bring light into the mine. And what did the frog have to do with it?

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### **Info Point 2**

#### **Interactive Station**

Gale-force winds in the mine

In order to make the bellows work, you need a lot of strength. Explain how a bellows functions and for what the miners used it.

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### **Info Point 3**

#### **Interactive Station**

The speaking stone

The speaking stone in the Grottoneum will tell you a story. Write down what it is about.

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**Info Point 4**

**Interactive Station**

Treasures of the mountain

On the Mineral Resource Wall, you can see the treasures of the mountain – the minerals. One of these is used for horseshoes. Find out which mineral this is and write down its name.

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**Info Point 5**

**Knowledge Station**

Forwards with hammer and pick!

Which tools did the miners use to dig deep into the mountain? Name and sketch these tools.

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**Info Point 6**

**Knowledge Station**

Geologists and mine surveyors

In order to dig a tunnel deep in the earth in the desired direction, the miners had to know the right way to go. For this, individual miners had special tasks, for which they used different equipment to measure the tunnel. Write down the name of these miners and describe their tasks and activities.

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**Info Point 7**

**Interactive Station**

Water break-in

Water flows underground along the rock walls. At these places, the walls in the Feengrotten are brown. Explain where this brown colouring comes from.

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**Info Point 8**

**Interactive Station**

Stones on the way into the light

In earlier times, rock was transported from the mountain with a hand-winch. Are you strong enough to winch the rock upwards? Try it out at this station.

**Info Point 9**

**Interactive Station**

The dripstone empire

Stalactites grow from the cave ceiling towards the ground; stalagmites grow from the ground up. But what do you call the dripstones that grow together in the middle?

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**Info Point 10**  
**Interactive Station**

Mineral Zoom

There are many different types of minerals in the Saalfeld Feengrotten. Name three of them and describe how they look.

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**Info Point 11**  
**Knowledge Station**

In the abandoned mine

From which mineral did the numerous stalagmites in the fairy grottoes grow?

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**Info Point 12**  
**Interactive Station**

Dance of the molecules

Nature amazes us again and again with her large variety of colours. Move the puzzle parts across the screen and discover the miraculous world of the minerals.

**Info Point 13**  
**Interactive Station**

How is a stalagmite created?

Watch the film and explain how a stalagmite grows.

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**Info Point 14**  
**Interactive Station**

Living stones

The dripstones in the Saalfeld Feengrotten are especially colourful. Minerals cause the colouring. Which mineral is responsible for which colour?

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**Info Point 15**

**Knowledge Station**

Geological profile

Here at the Geological Wall, you can see the different rock layers from the area that surrounds the Feengrotten. Which layers are which, and how old are they?

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**Info Point 16**

**Interactive Station**

From the mountain to the grotto

Eavesdrop on the courageous explorers during their exciting discovery of the Saalfeld Feengrotten. Note down in bullet points some of the things that they are talking about.

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**Info Point 17**

**Knowledge Station**

Roasting and boiling

Even the ancient Romans used the white crystals from the black rock. Write down what they used the rock for.

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**Info Point 18**

**Knowledge Station**

The ochre of the Feengrotten

Ochre was also excavated from the Feengrotten. What was the Saalfeld ochre used for?

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**Info Point 19**

**Knowledge Station**

Grotto cinema

In the grotto cinema, learn about the exciting development of the Saalfeld Feengrotten. Listen carefully and note down how many years ago it all began, and which kinds of creatures lived at this time.

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**Info Point 20**

**Interactive Station**

The healing water from the mountain

What was the special water found in the depths of the Fairy Grottoes used for in former years?

And what is so special about this water?

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**Info Point 21**

**Knowledge Station**

Treasury of the Feengrotten

How many different types of mineral have been found in the Feengrotten? Name some examples.

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**Info Point 22**

**Knowledge Station**

Fascination minerals

From which mineral is the so-called "yellow worm" made out of in the Feengrotten?

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**Finished!**

You have completed all the tasks and have visited all 22 information stations of the Grottoneum.

Is one of your questions still incomplete? No problem. Your teacher or the staff at the

Grottoneum Information Desk will be happy to help you. Just ask.

**Glück Auf – Good Fortune!!**