

- PROFESSOR EINSTEIN:** What is today's topic, Ms. Schlau? Umm... Didn't we have... ummm... ?
- MS. SCHLAU:** We are going out with a bang? Sparks will fly?
- PROFESSOR EINSTEIN:** Oh, right! Haha! Thank you! Dear students, today you're going to learn how to make a great fireworks show for special occasions.
- MS. SCHLAU:** Yes, it's great. For example, at New Year's or a wedding...
- PROFESSOR EINSTEIN:** ... or a birthday. By the way, Ms. Schlau, mine is in just 3 days.
Don't forget. Heehee! JOWO, what's wrong? Are you alright?
- MS. SCHLAU:** I think he also wants to contribute to special occasions, so he decided to write a poem.
- PROFESSOR EINSTEIN:** JOWO, my JOWO, how nice of you. If there's one thing I can rely on, it's your Goethe model poem generator. Alright. Let's see...
"The bell on the stapler oinks and the dumpling bush boinks!" What is that, Ms. Schlau?
- MS. SCHLAU:** Oh, but that's poetic bodily injury.
- PROFESSOR EINSTEIN:** Mhm, is his poetic central processor burned out? JOWO, just show us the film please. In the meantime, I'll check his circuits.
- MS. SCHLAU:** This is the Cologne Cathedral and that is the Hohenzollern Bridge. Something's about to happen with the TV character the Mouse. And the person currently drawing the Mouse is a fireworks technician.
- PROFESSOR EINSTEIN:** Yes, that is Mr. Kurtseifer. He wants to give the Mouse a present for his birthday. Every year in Cologne there's a great fireworks show, the "Cologne Lights" and the Mouse is opening this show. As a **firework (FEUERWERK)**. With a rocket, of course! Mr. Kurtseifer is drawing it right now.
- MS. SCHLAU:** The Mouse's arm is supposed to go down and light the rocket and a big 40 is to appear for its 40th birthday.
- PROFESSOR EINSTEIN:** Of course, the Elephant can't be forgotten.
- MS. SCHLAU:** And because Mr. Kurtseifer isn't an illustrator but a fireworks technician, he's getting help from a computer. Because here he has a **picture (BILD)** of the Mouse. First, he prints it out. Not on paper, but on a transparency film. He puts this film on something that some of you will recognize from school.
- PROFESSOR EINSTEIN:** Yes, this is an overhead projector. When you turn it on, the photo on the slide appears on the wall. But enlarged.
- MS. SCHLAU:** Now he uses a ladder and **tapes (KLEBEN)** sheets on the wall where the Mouse is. Then he uses a pen to **trace (ABMALEN)** the Mouse. When he's finished, he uses a knife to cut out all the parts that he just drew.

- PROFESSOR EINSTEIN:** He takes the sheets down and places each one on to a piece of plywood. They stick to the wood, and eventually all the pieces are on the board in an efficient and organized manner. Brilliant!
- MS. SCHLAU:** And now he again traces the parts with a **pen (STIFT)**. The sheets are removed and this is how the cutting pattern looks. Now he just needs a saw to saw it all out. There it is. Now we see how Mr. Kurtseifer uses the saw to **cut out (AUSSCHNEIDEN)** all parts of the board.
- PROFESSOR EINSTEIN:** This is an eye. It goes there. Here's the second eye - and you can already see the outline of the Mouse. Now it all needs to be screwed together. And of course color needs to be added as well. So the Mouse is painted in orange, brown and black.
- MS. SCHLAU:** Yes. But one thing is missing for a firework. Mr. Kurtseifer uses a pencil to draw little Xs on the piece of wood. Everything's evenly spaced. Well, almost.
- PROFESSOR EINSTEIN:** Wherever there is an X he drills a hole into the wood. He puts cardboard tubes into these holes. They fit very securely. Mr. Kurtseifer calls these cardboard tubes light spears. These are the fireworks.
- MS. SCHLAU:** If you open one of these cardboard tubes, there's colored powder inside. If you ignite it, it **burns (BRENNEN)** very colorfully. Inside the cardboard tubes, the light spears burn more slowly. Like a fiery fountain. And very important: At a certain point, they go out, all by themselves. That means you don't need to worry that the wood will catch fire.
- PROFESSOR EINSTEIN:** To ensure that they all begin burning at the same time, the light spears are connected with a fuse. But instead of using a regular fuse, Mr. Kurtseifer uses this special tape. That line in the middle is black powder, which burns.
- MS. SCHLAU:** And this is how all of the light spears are connected. Alright. Press it together nicely. And Mr. Kurtseifer also applies a strip of black powder tape across the middle. This way, the fire spreads everywhere lightning fast. Like this. And pow! All 5 light spears are burning. And that's what will happen with the Mouse as well when it hangs on the bridge later.
- PROFESSOR EINSTEIN:** The Mouse is being unloaded from the truck. The light spears are evenly distributed all over the wood and connected with the fuse tape. And here is the **arm (ARM)**. It still needs to be attached.

- MS. SCHLAU:** The arm moves. And there's a good reason for that - because the Mouse's arm is supposed to lower itself down. Mr. Kurtseifer tests everything one more time to make sure it works - yes, it looks good. Now the Mouse can be attached to the bridge.
- PROFESSOR EINSTEIN:** This needs to be done very carefully. Nobody wants the Mouse to fall into the Rhine River. Securely attached, the Mouse is now hanging on the Hohenzollern Bridge. Mr. Kurtseifer checks once again if the Mouse's arm can **move (SICH BEWEGEN)**. Yup, no problem. They're ready for the evening.
- MS. SCHLAU:** Tonight's fireworks are called "Cologne Lights" and the Mouse gets to open them in honor of its birthday. The countdown begins. Mr. Kurtseifer is ready and ignites the light spears.
- PROFESSOR EINSTEIN:** From the other side you can now see the Mouse made of fire, and the Elephant as well.
- MS. SCHLAU:** The Mouse's arm moves slowly down, and it looks like the Mouse is lighting the **rocket (RAKETE)**!
- PROFESSOR EINSTEIN:** And now the 40 for the Mouse's birthday lights up. Happy Birthday!
- MS. SCHLAU:** What wonderful fireworks! Don't you think?
- PROFESSOR EINSTEIN:** Thank you, but... I'd really prefer it if JOWO could spit out another good poem. Ah, I think we're just about there.
- MS. SCHLAU:** Umm, Professor, some of the students are quickly fleeing the room. I think they're afraid that JOWO will...produce another mean and dangerous poem.
- PROFESSOR EINSTEIN:** Hey, please stay. I'm sure that JOWO will now create, um... perhaps a cool rap for you.
- MS. SCHLAU:** Ahhhhh!
- PROFESSOR EINSTEIN:** - What is it?
- MS. SCHLAU:** JOWO displayed a new poem. Don't look, students. Don't look, Professor. It's even worse than the first poem and could cause severe stomach ache and extreme hair loss.
- PROFESSOR EINSTEIN:** Help, we need to evacuate right away. Emergency! Sound the alarm! All students go outside. Save yourselves if you can!