





LESSON PLAN

Theme 9: 3D Printing (3D-Druck)
Session 1 (of 3)

Tipps and Tricks for your Club Session Lesson resources for 3D Printing are here: https://kinderuni.goethe.de/mod/videoscore/v iew.php?id=5949

- Watch the relevant video before the lesson: https://kinderuni.goethe.de/mod/videoscore/view
 .php?id=5949
- Practise the key vocabulary before the session: https://kinderuni.goethe.de/mod/page/view.php?
 id=4490

Objective

klein

Das Auto ist XXX.

The learners are taught about digital footprints and 3D printing. They know adjectives to describe a car in German.

small

The car is XXX.

German Words/Phrases Learning Goals

Ge	illiali wolus/Pillases Lealillig	J Guais
•	der 3D-Druck	3D printing
•	der digitale Fußabdruck	digital footprint
•	das Auto	the car
•	fahren	to drive
•	bremsen	to brake
•	sehen	to see
•	langsam	slow
•	schnell	quick
•	schön	pretty
•	neu	new
•	alt	old
•	groß	big

Materials

- Interactive whiteboard with internet access and audio
- Toy cars
- Plain paper and colours, one for each learner
- Writing implements
- At the 3D Printing Workshop worksheet
- Whiteboard markers/chalk
- Car (Auto) image card
- "My word bank sheet: 3D Printer (3D Druck)"

Time	Social Form	Learning Objective	Content	Materials	Phrases and Gestures
2 mins	Whole group	The learners are able to greet each other in German.	Leaders and learners greet each other with German greeting words learnt previously.		Hallo Hello. Guten Morgen Good morning.
			They move around the room, greeting as many people as possible. Leaders should be addressed as "Herr XXX" or "Frau XXX" to practise using those terms.		Guten Tag Good day. Learners could shake hands when greeting each other.







Time	Social Form	Learning Objective	Content	Materials	Phrases and Gestures
5 mins	Whole group	The learners can recall a range of verbs in German.	Warm up by playing the car game from the start of the previous session. Distribute the toy cars and give the children directions (Fahr geradeaus/rechts). Do an example for the learners, as a reminder. The learners follow the directions. They continue this activity with a partner: One partner gives directions, the other follows the directions. After one minute they switch roles.	Toy cars	Wir spielen ein Spiel Let's play a game. Ein Beispiel One example.
8 mins	Whole group, then individual and paired work	The learners can make a pictorial representation of their digital footprint.	The leader tells the learners that they are continuing to look at cars, but online. First, they are going to work alone to create their digital footprint. Discuss: What is a digital footprint? Answer: This is the information trail left behind online when a person uses the internet or digital devices. The leader tells the learners to draw around their foot (shoe on or off) on a piece of A4 paper and list all the electronic devices they use at home and in school within the outline of their foot.	 Plain paper and colours, one for each learner Writing implements 	Zuhören bitte Listen carefully. Wir diskutieren Let's discuss. Was ist der digitale Fußabdruck? - What is the digital footprint? Wir arbeiten allein Let's work alone. Hier ist ein Blatt Papier Here is a piece of paper. Wir zeichnen den Umriss des Fußes Let's draw around the outline of our foot. Dann machen wir eine Liste der elektronischen Geräte Then let's make a list of the electronic devices we use.







Time	Social Form	Learning Objective	Content	Materials	Phrases and Gestures
			Do an example for the learners, before they begin. After 5 minutes the leader asks the learners to pair up with another child. The children present their digital footprints. After one minute they choose a new partner and once again present their digital footprints to each other.		Ein Beispiel One example.
8 mins	Whole group	The learners understand how 3D printing works.	The leader continues the discussion about technology and images. Discuss: Do you understand the difference between a 2D and a 3D image? Answer: Two-dimensional objects have length and width, but no thickness or height. Do you know how a computer makes a 3D item? Answer: Let's watch the video to find out! Watch the video on 3D printing here in full: https://kinderuni.goethe.de/mod/videoscore/view.php?id=5949 During the video the learners work on the At the 3D Printing Workshop worksheet. They match the names of the devices	Interactive whiteboard with internet access and audio At the 3D Printing Workshop worksheet	Zuhören bitte Listen carefully. Wir diskutieren Let's discuss. Wie sagt man "slow" und "quick" auf Deutsch? - How do we say "slow" and "quick" in German? Wie sagt man "red", "blue" und "yellow"? - How do we say "red", "blue" and "yellow"?







Time	Social Form	Learning Objective	Content	Materials	Phrases and Gestures
			used to recreate a modified version of the model car to their picture. After watching the video, the leader asks: How does a 3D printer work? What is the difference between a normal printer and a 3D printer? With the help of the worksheet, the learners first share their ideas with their partner and then discuss in class: In its cartridges, the 3D printer has a special plastic instead of ink. The model car is built layer by layer over the course of 15 hours with the plastic.		
5 mins	Whole group	The children know German adjectives (schnell, langsam, groß, neu, schön, alt, rot, grün).	The leader asks the learners how the model of the car is built up. Answer: Slowly in thin layers. Ask: How do we say slow and quick in German? Answer: Slow (langsam). Quick (schnell). Ask: Do you remember other adjectives learnt previously (e.g. colours)? The leader puts the picture of his/her favourite car on the board and asks the children to describe the car with adjectives. The leader collects the adjectives on the board and introduces the	 Interactive whiteboard with internet access and audio Whiteboard markers/chalk Car (Auto) image card 	Wir lernen mehr Adjektive auf Deutsch Let's learn the verbs in German. Zuhören bitte Listen carefully. Wiederholen bitte Repeat please.







Time	Social Form	Learning Objective	Content	Materials	Phrases and Gestures
			corresponding German adjectives. The learners repeat. Afterwards the leader describes the car using the structure: Das Auto ist and writes the structure on the board. Tell the learners that they will continue to describe cars in the next session.		
2 mins	Whole group	The learners can say goodbye in German.	The leader recaps what the learners have achieved in the session and congratulates them on their work. The leader encourages the learners to repeat the German words from the lesson. Each learner then fills out "My word bank sheet: 3D Printer (3D Druck)" and writes down the German words and chunks they learned in today's lesson. The learners leave the session saying goodbye in German.	"My word bank sheet: 3D Printer (3D Druck)"	Toll gemacht Well done! The learners take part in the club's goodbye ritual. Tschüss Goodbye. Learners can also say goodbye to Frau Schlau and Herr Einstein.