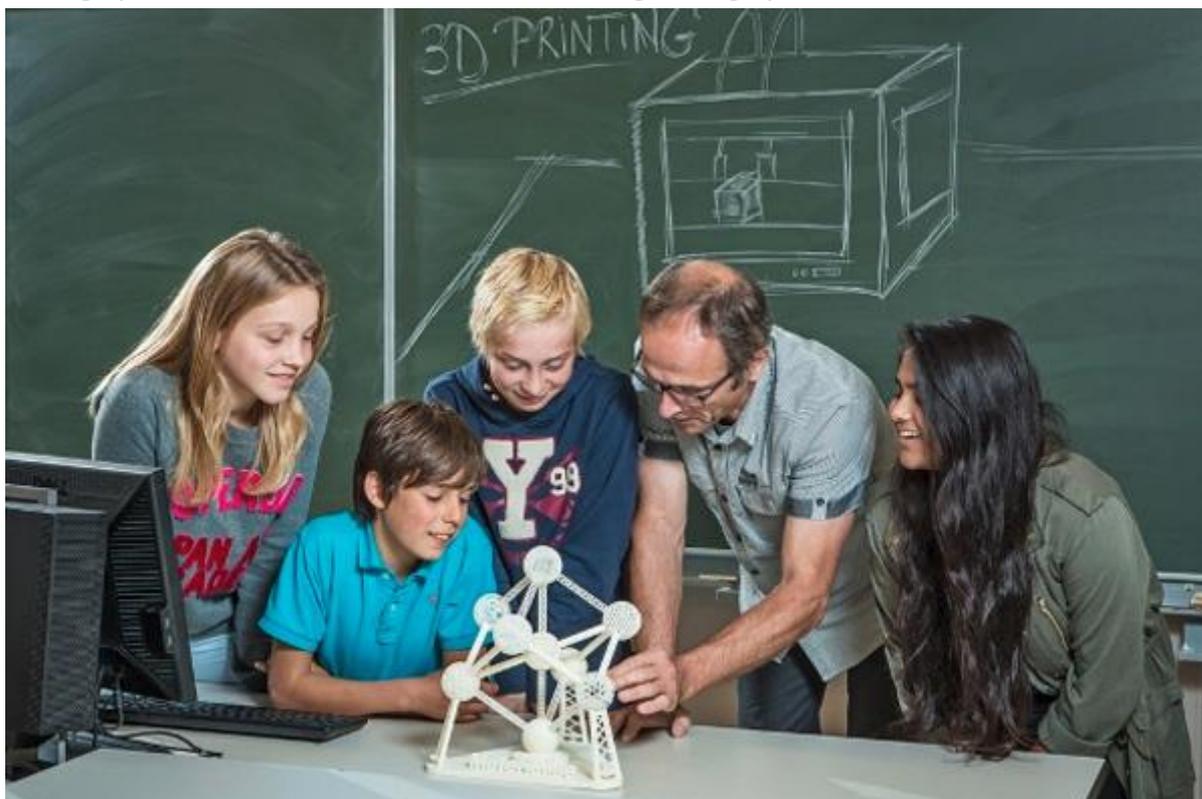


Why is 3D Printing important in school education?

1. In-house 3D printing is evolving and becoming more and more widespread. Teachers should not ignore this technology. At the same time, students should be introduced to this technology, which will play an important role in the future labour market.
2. Until now, students have usually worked with 'subtractive construction', i.e. working with a piece of material and removing parts of it. Another method of 'making' is that of using clay. With 3D printing, additive manufacturing is used where waste disposal is zero.
3. 3D printing paves the way to iterative design. Students design their own product which, once printed, can be immediately modified and improved.
4. Its use is applicable to a variety of subjects.
5. Thanks to the combination of programming, electronics as well as 3D printing, students can do many projects including robotics, structural and various inventions made at home that help to deepen their knowledge of how things work.
6. Design, 3D printing and educational robotics improve personal learning and thinking skills, creating creative, thoughtful and reflective learners since they are taught to students through practice. After all, it is known as learning through practice.



3D printing makes learning easier

Difficult concepts and lessons, such as anatomy in biology, are now made simple and tangible for the students. They can see and touch the objects and have time to process and

understand them. In fact the future of technology in education acquires online textbooks to include 3D pedagogical aspects and be designed to be printable according to the lesson. This can be called and educational experience!

It is possible to find more information about 3D printing, including applications, trends and its benefits for Education in the “3DP TEACHERS’ GUIDEBOOK”.