

P.L.K. GRUNDSCHULEN STEM BILDUNGSDELEGATION IN DEUTSCHLAND





MINISTRY OF EDUCATION, YOUTH AND SPORT



Germany Education System

- No centralized curriculum and examination for any key stages, even for the entry of universities. Free education for all stages.
- Assessment with result in 6 Grade: Very Poor, Poor, Adequate, Satisfactory, Good, Very Good.
- Teachers suggest students to choose which kind of secondary school at the age of ten based on their assessments, projects, performance and the willingness of students and their parents.
- Different types of secondary schools for students to choose:

General secondary school, Intermediate secondary school, Joint secondary school, higher academic secondary school.

- Can change to other stream by re-studying a lower level in order to fulfill the requirement.



BADEN-WUERTTEMBERG EDUCATIONAL PATHWAYS



Please note: For some connecting schools additional gualifications are required. For reasons of simplification, these have not been included in the chart.

mainstream schools in the education of young students who need special educational advice and support or who are by acknowledgement entitled to special-needs education. The special needs education and advisory centres differ according to their main focus of support. Some of these offer the same education as mainstream schools, so that the school-leaving certificates shown in the chart can also be attained at these schools. The SBBZs which offer the same education as mainstream schools and whose students aim at the same qualifications, follow the same educational objectives, but also adhere to special curriculae according to the respective focus of support. In addition, they offer their own educational qualifications in the field of learning and intellectual development. A

- * As part of a trial, students at 44 model schools can attain the university entrance gualification (Abitur) after 9 instead of 8 years. The first group of 22 schools began the trial at the start of the schoolyear 2012/2013, the second at the start of the schoolyear 2013/2014.
- Primary school (Grundschule) and the higher secondary level (Sekundarstufe II)
- Primary, general secondary, joint secondary and higher academic secondary schools
- Special needs education and advisory centres



ADVANTAGES OF DUAL SYSTEM



- Training in the Dual System is open to all school leavers.
- The Dual System is free of charge for all the students. Students even get an apprenticeship pay.
- It provides basic and specialized professional training and broadens their general education.
- Practically-oriented training combined with theory.
- Maximum exposure to job reality.
- It generates the specialists for the needs of the economy.
- Match supply and demand of highly qualified skilled professionals.
- Low rate of youth unemployment



CURRENT KEY ISSUES



- Education in a digital world.
- Inclusive education for children with special needs.
- National education standard Comparability.
- Improving and strengthening of pre-school education.
- Integration of migrants.
- Rapid growth of all-day school.
- Individual support.
- Promotion of gifted students.
- Internationalisation.
- Quality development.

1ST SCHOOL VISIT (TEAM A)

- School name: Fuchsrainschule
- School type: Government Aided Primary





LESSON OBSERVATION

• Preparation before lesson



LESSON OBSERVATION

- Activities making a boat
- 2 students per group, test in within own group



LESSON OBSERVATION

• Testing together and observe others' work





1ST SCHOOL VISIT (TEAM B)

- School name: Ameisenbergschule
- School type: Government Aided Primary School
- No. of students: 280
- With international class





OTHER INFORMATION

- Computer room for entertainment
- Newly renovated library 1 hour reading lesson per week
- Work room (Not all schools have) Similar to D&T room in Hong Kong
- 3 playgrounds and several gardens for planting
- Exclude E-learning Let children learn self-disciplined and concentration
- Half day lesson, free time or join extra-curricular activities hold by parents / training teachers/ volunteers in the afternoon





COMPUTER ROOM



CLASSROOM SETTINGS





WORK ROOM







PLAYGROUND



GARDEN



LESSON OBSERVATION – GRADE 2 MATHS











2ND SCHOOL VISIT

- School name: Schulzentrum Pfalzgrafenweiler
- School type: Primary and secondary school
- No. of students: Nearly 800





STEM EDUCATION

- Co-operation with commercial company- Fishchertechnik
- Vocational training for engineer, etc.
- Provide wide variety of STEM education
- Project learning
- Free to choose their own topic for projects









STEM ROOM



STEM ROOM



STEM ROOM















SOFT DRINK MACHINE



3RD SCHOOL VISIT



- School name: Galileo Primary School (Whole-Day)
- School type: Private Primary School
- No. of students: Around 200





SCHOOL EDUCATION OBJECTIVES



- Encourage value and participation.
- Emphasis acquisition of basic skills.
- Research development learning.
- English is taught at the beginning.
- All-day concept with extra-curricular activities.
- Integrate reality of everyday life.
- Individual promotion of pupils and social learning.
- Learning for the future- creative media projects.

MINT EDUCATION (STEM)





MINT EDUCATION (STEM) --ROBO WUNDERKIND



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MINT EDUCATION (STEM) --ROBO WUNDERKIND








1ST COMPANY VISIT -- DUYSMA

 100- years-old leading Germany Educational toys and aids for all ages, especially kindergarten and lower primary schools.







WORKSHOP













2ND COMPANY VISIT -FISHCHERTECHNIK

• Recommended STEM product company





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