

EUROPEAN SCHOOL
KARLSRUHE

Primary & Secondary

Challenge
Programme



Presented to the
Education Council
June 2019

And
to the
Administration Board

Sept. 2019

Updated version

November 2022

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1. Framework

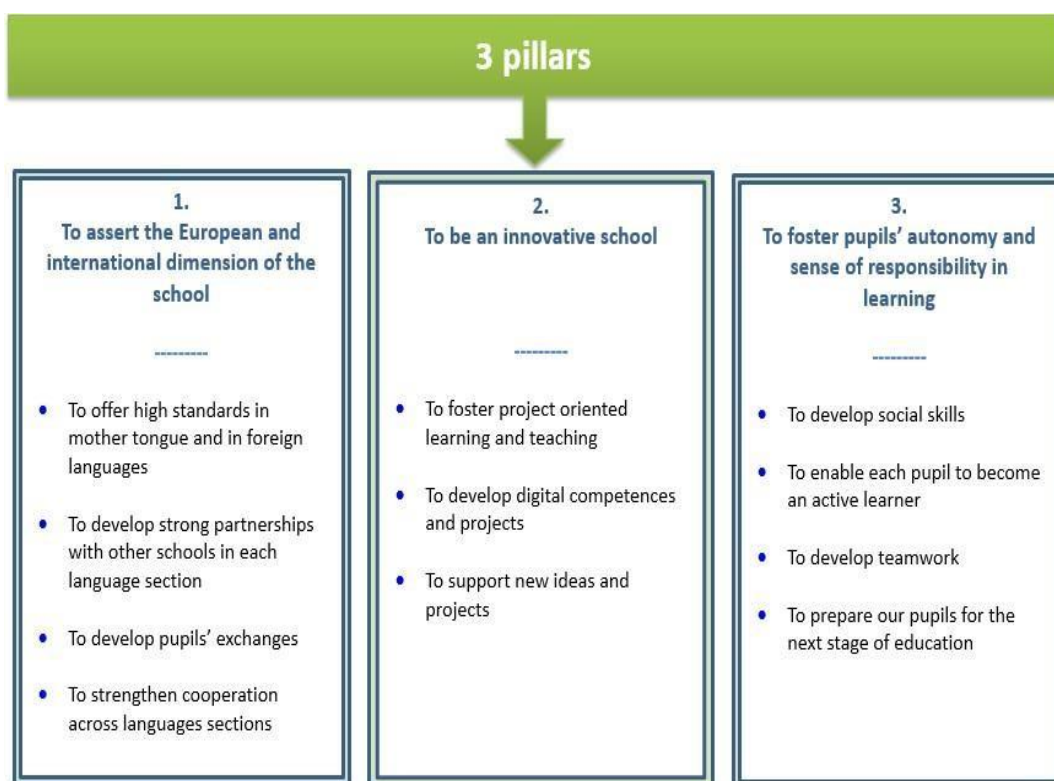
1.1. Context

1.1.1. Mission of the European School

The mission of the European School Karlsruhe is to provide, in a safe environment, a high-quality multilingual and multicultural education for Nursery, Primary and Secondary level pupils and to give each pupil the best possibilities to develop her/his individual personalities and potential based on key competences. Furthermore, the mission is to let the JRC-Karlsruhe, the Technology Region Karlsruhe and the Land Baden- Württemberg benefit from the presence of ESK.

1.1.2. Vision in teaching and learning of the European School Karlsruhe

A common vision in teaching and learning is developed in the School, based on 3 specific pillars (Ref. *Multi-Annual School Development Plan 2019-2021*):



1.1.3. Educational Support in the European School

In the European Schools, "different forms and levels of support are provided, designed to ensure appropriate help for pupils experiencing difficulties and having special educational needs at any point in their school career, to allow them to develop and progress according to their potential and to be successfully integrated" (*Policy on the Provision of Educational Support in the European Schools*, Ref.: 2012-05-D-14-en-9).

1.2. General aims of the Challenge Programme

Normal daily classroom differentiation should cater for all children, including those of higher ability. The challenge programme is an extension to what is already being provided by the class and subject teachers in our school.

The Challenge Programme is an opportunity for gifted but also talented and motivated pupils to develop their potential, through extra activities and projects. At the European School Karlsruhe, the *Challenge Programme* is a part of and funded by the Educational Support budget.

1.3. Organisational Principles

Pupil profile to attend the Challenge Programme:

- Gifted or talented pupils/students
- High achievers
- Highly motivated pupils/students

The Challenge Programme consists of 3 Parts:

- 1) Differentiated activities for these pupils in the classroom during the normal lessons
- 2) The general aims of the programme is to enhance the learning of gifted or talented pupils by developing some of their areas of talent/interest at the same time acknowledging and providing support for the specific areas children may have difficulties with. (social skills/ empathy, life skills/ autonomous learning and the need for ongoing pastoral care)
- 3) Extra lessons in specific areas are provided for the target pupils

Procedure:

- Class teachers recommend pupils for the Challenge Programme extra lessons.
- An advisory group including the support coordinators decides upon the availability and participation. There are a limited number of places available. Available courses may change over time.
- The Director approves the proposal of the advisory group
- When the advisory group have finalised the pupil list, the parents of those children are informed about the opportunity (This is not an afterschool activity like those offered by the Parent's Association where parents register their child themselves)

2. Organisation and offer for 2022-2023

Differentiation:

Differentiation forms the basis of effective teaching. It is essential for all pupils, including those pupils requiring support. Differentiated teaching aimed at meeting all the pupils' needs is the responsibility of every teacher working in the European Schools and must be common

classroom practice. Differentiated teaching ensures that in planning and delivering lessons, teachers are aware of and take into consideration the different learning styles and individual needs of all pupils.

(Ref.: 2012-05-D-14-en-9)

Differentiation is therefore the first and common response to stimulate and nurture talented and motivated pupils in both the primary and the secondary school.

2.1. PRIMARY SCHOOL

Existing Provision:

- **Visual arts:** Volksbank art competition, art gallery trips, art and drama EU hours groups
- **Music and dance:** High ability children in music and art are recommended to take extra outside lessons. Choir and EU dance groups during EU hours, various performances throughout school year, Christmas, Sommerfest, choir festival, harmonic tower performances
- **Sports:** Kinder marathon, athletics, swimming and basketball competitions
- **Creative and productive thinking/entrepreneurship/leadership:** Film club, newspaper, choir, class representatives
- **Mechanical Ingenuity/Logical Thinking/Maths/Scientific/ICT:** Robotics, film club, JRC Scientists yearly lessons in lab including experiments classes 1-5
- **Kangaroo maths, Matific** for ICT and maths

Challenge Programme Provision 2022/2023:

1. FUN WITH SCIENCE:

In this course, the children carry out a set of experiments which are fun to do, but which also allow them to learn how science works from studying the results of experiments. The emphasis is on encouraging discussion and new ideas.

The course is hosted by two KIT scientists, Daniela Vallone and Nicholas Foulkes and is based on their successful “labor projekt” that for the last 15 years has formed part of the “Discovery of the World” activities for all 5 year groups in the ESK Grundschule. However, the longer time-frame of the Challenge program makes it possible to work on more ambitious and exciting projects. We organize the lessons into collections of experiments that over the course of several weeks explore important themes and concepts, for example, what makes the colours in leaves and flowers, what seeds need to grow and investigating which germs and microbes surround us at all times.



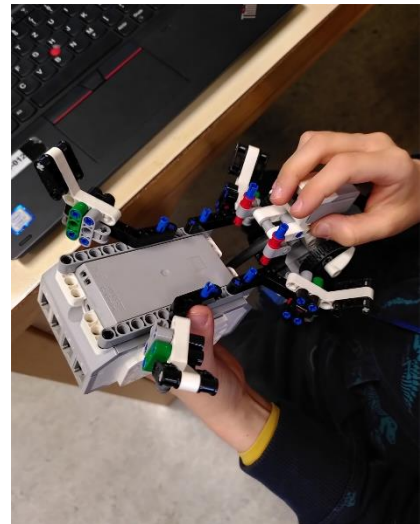
Project leaders: Nicholas Simon Foulkes, Daniela Vallone

2. **LEGO ROBOTICS:**

Students develop spatial, fine motor and basic programming skills through building robots using Lego and programming with a block based programming software. The building time is often more challenging than the children expect as they must follow the instructions closely in order to have a functioning robot.

In the programming stage, students first learn how to move the robot and then move into using sensors.

Project leader: Peta Finden



3. **CreITivity:**

Within this group, students will come in touch with different forms of art and music, in light of New Technologies.

Traditional and modern ways of expression will merge with the use of the iPADS.

Musical instruments, such as our school's ukuleles, animation Apps, like FlipaClip, will be some of the tools we will be using this school year.

Videos (examples of our work):

<https://www.es-karlsruhe.eu/project/challenge-creitivity/>

Project leader: Eva Chatzirafailidou



Considerations:

- To avoid pupils not following the required subjects and lessons laid down in the general rules for the European schools, **the 3 extra lessons are scheduled on Wednesday afternoons.** (Outside of the regular timetabled lessons)
- **The target group are pupils in P3-P5,** but in rare and exceptional cases, pupils from P2 can be recommended by class teachers. The focus of the groups may change and/or additional groups created depending on our findings. A record of pupils participating in the extra lessons on Wednesday will be kept by the support coordinators.

2.2. SECONDARY SCHOOL

- **Cross-sectional, cross-disciplinary and age-related**
- **In the secondary school, pupils with special skills or those who are highly motivated can be supported by participating in the Challenge programme.**
- Beside the regular projects offered in the secondary school, such as the [European School Science Symposium](#), [Model European Council](#), [FAME](#), [EUROSPORT](#), [Model](#)

of [United Nations](#), pupils will be able to participate in specific projects every semester for the Challenge programme. Important people in public life (journalists, artists, politicians, scientists ...) will be invited to our school for this purpose.

Provision 2022/2023:

1. **Legio VIII:**

The LEGIO VIII interdisciplinary club (inspired by the working methods of the *Légion VIII Augusta*® association based in Autun, France) will allow students to engage in experimental archaeology by reconstructing objects from the Roman era but also hand to hand combat, theater to re-enact military actions, prayers, scenes of daily life (body care by doctors, for instance) or dialogues between politicians or soldiers.



Project Leader: Ms. Le Gall.

2. **Science Club:**

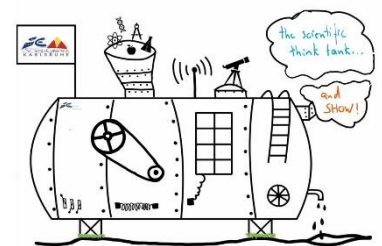
Talented and motivated young scientists design, plan and execute scientific projects in small groups, with different teachers along the year. They train in the scientific and multidisciplinary project approach. Encouraged to get closer to professionals (scientists, engineers, technicians), the students possibly take a first step towards the world of business. They prepare posters and oral presentations as in the real world and can apply for scientific competitions such as Jugend Forsch, Cgénial France and others.



Project Leaders (in turn): Mr Ágoston, Ms. Becke, Ms. Chabanis, Mr Muller, Ms Valdisseri

3. **Scientific Think Tank and Show:**

A catalyst for all kinds of scientific interests and skills, with the desire to really dive in and explore a scientific question as starting point. A platform for opportunities such as meeting experts, the study of a topic outside the syllabus and the use of new skills.



Project Leader: Mr. Muller

4. **Fahrradwerkstatt/Bike Workshop:**

Make a diagnosis and repair bikes, maintain the school bikes and produce a multilanguage handbook about bike maintenance and repair. Presence at Summer party.



Project Leader: Mr. Viehmann

5. **Ensemble vocal a capella/Ensemble flute à bec:**

Selon leur motivation, les élèves apprennent à chanter ou à jouer de la flûte à bec ensemble, à plusieurs voix. Ils et elles choisissent un thème, apprennent plusieurs pièces et montent un programme de concert qui peut être présenté en direct, ou être enregistré.

Project Leader: Ms. L'Espérance



6. **School Band:**

Play, practice, record and perform rock songs. Learn about instrumental advanced techniques, sound techniques and the organization and production of professional recording and shows.

Project Leaders: Mr. Escarate, Mr. Muller

