**Teachers‘ Meeting „Robots ‚R Us“ for preparing the 2nd International Meeting in Puerto del Rosario, 19th January 2019 – 26th January 2019**

**What**  **How**  **Who**  **When** **remarks**

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| Project Task: Video on activities in the groups with a short explanation in English about the activity | Students make little mobile phone films * When they solder the board
* When they unpack the hardware

Students make a little mobile phone film on project work  | Peter Gottbehuet and classes Q2 and Q1Susanne Rielage with class GOEF | 20th DecMiddle of January? | uploaded |
| Ideas of drawings for the robot arm | Robot courses in Q1 and Q2, in 2D, 3D?Connection to chassis? | Peter Gottbehuet and Martin Grosch | 14th December to February 2019? |  |
| System analysis for the robot | One student presents the poster for the system analysis of the robot | Susanne Rielage and GOEF | By 20th December 2018 |  |
| Laptop in Spain? | Taking our own laptops to Spain? | Susanne Rielage, Christoph Schopohl | 19th January  | Because of their own data and programmes they need |
| Working with tinkerCAD | Installing the program and getting an idea of how the program works **just as much as is necessary to be able to support** international groups in SpainTutorial on thinkerCAD | Christoph SchopohlSusanne RielageSpanish teachers | By 19th January 2019 | Not yet in etwinning  |
| Working with ‘Solid Edge’ the Norwegian program? | We don’t work with that, as Inventor is compatible with TinkerCAD |  |  |  |
| Software:Block programming with Snap4 – Coding | Block programming during the first months of project,Coding later because Snap4 cannot be used for problem solving | Germans don’t do block programming, just coding | By May 2019? |  |
| Hardware: Kit 3 | Jose thinks it is not necessary to use the whole vehicle, only parts for little tasks are sufficient at first | All German experts agree | now |  |
| Sensors | Sensors are dealt with in the German students’ classes Q1 and Q2 – solutions are uploaded on e-twinning | Peter Gottbehuet, Susanne Rielage, Christoph Schopohl | In May 2019: workshops about sensors |  |
| Ideas for the robot arm | A pool of solutions | All groups | By 19th January 2019 |  |
| Contacts with students in Germany  | Students Q1 and Q2  | Nico Heinemann contacts Team 3 for spreading information – should ask Susanne Rielage | By 19th Dec. – Susanne A. asks Nico |  |
| Materials for the robot | Comparing different types of materialsMethod: e.g. Think-Pair-Share/Jigsaw/expert groups/ as a cooperative learning method? | All groups when in Germany,organised by Susanne Auer (mixed gender, mixed ethnic background)Susanne Rielage organises the workshops and cooperative methods | May 2019 in Dortmund Workshops |  |
| Logo competition in Spain | Students at the LHB – 3 from classes BVB create a logo to take part in the competition, they make a video and present their logos | Susanne Auer,Schüler BVB1 und BVB3Susanne Rielage asks in classes GOEF | 11th January 2019 |  |
| Students skype conference | All members of all teams skype/WhatsApp with each other – photo that proves the conference.World Wide Team (Team 3)Team 1: JannesTeam 2: MarkTeam 4: Ivan und Youssef | Peter Gottbehuet asks NicoSusanne RielageSusanne RielageSusanne Auer | 9th January 2019, 15:00 h German time |  |
| Dissemination of all project results on… | **eTwinning**Facebook Instagram => automatically | All teachersSusanne Auer, others who like |  | Raquel has produced a facebook page – Robots ‘R Us – have a look if you like |
| Fields on etwinning which is public and what isn’t  |  | Susanne Auer |  |  |
| Preparation for the subject matter:“Girls in technology” | Short interviews with technologically interested girls at the LHB-automotive apprentices-industrial mechanics | Susanne AuerJochen Steier | On their specific school day in 1st week of January |  |
| Film and photo in Fuerteventura | Professional filmingStudents’ filming and editing | Jochen SteierSusanne Auer | 19th – 26 January 2019When back in Dortmund:In February 2019 |  |
| Criteria for the best robot | List of criteria  | All experts | In Spain/Before meeting in Dortmund |  |
| Permission to film and publish | Students have to sign a permission  | All students who are filmed | Copy has been sent to all colleagues involved on 10th December |  |
| Project presentation(s) | 30 Minutes presentation of our project, about Norway and Spain | Students Q1 and GOEF  | 8th February 2019, 9:50 h – 10:30 h, teachers‘ conference, parents‘ evening? |  |