**Lesson Plane Table**

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| **Subject:** | **Computer Science** | | | | |
| Authors: | Teachers: Petrachi Maria Antonia, Taurisano Francesco  Students: Aprile Lorenzo, Campinopoli Giulia, Morello Federico, Nocco Luca, Palumbo Giacomo, Stomeo Eleonora | | | | |
| Date: | | | | 15/03/2018 | |
| Estimated time: | | 60 minutes + 60 minutes |  | |  |
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| Summary: | Software tools to create apps for mobile systems | | | | |

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| **Objectives**  (Specify skills information that will be taught) | **Activity/ Information**  **Teacher Guide/ Student guide** | **Materials Needed**  (Other resources - web, book...) | **Assessment Methods**  (steps to check for student understanding) | **Time**  **Where?** |
| Promote a more efficient use of technology,  Understand and apply the concepts,  Stimulate creativity,  Encourage group work and peer learning  ***Know Concepts or Keywords:***  - ICT for education,  - software tools,  - mobile systems,  - smartphone sensors,  - “app inventor” | **Motivation Activities**  Can you make an app for your phone?  Do you know how your smartphone's sensors work?  Do you know “app inventor” environment?  **Field outing:**  Create an original app to calculate energy consumption (calories) during a walk | Worksheets  Devices:  Smartphone or tablet,  Personal computer  Software application:  “app inventor” environment | Quiz  Test  Practical activities | Classroom / Laboratory  Overall about 2 hours |

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| **Description of the activity:** | |
| **Introduction** | Features of a smartphone and its sensors |
| **Main activity** | Study of the “app inventor” environment for the production of apps |
| **Lesson Guide (Step by step)** | Projection of the steps of creating an app  (graphic interface, tool palette, use of encoding blocks) |
| **Exercises (2 or 3 levels of difficulty)** | Use of the “app inventor” tools to make an app for mobile systems |
| **Conclusion and Evaluation** | Final tests and quizzes on the proposed topics |
| **Notes** | Students are divided into small groups to carry out practical activities and solve the proposed tests |

Bibliography

* Original and self-produced teaching material, based on information taken from school textbooks and educational websites