**Lesson Plane Table**

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| **Subject:** | **Computer Science** |
| Authors: | Teachers: Petrachi Maria Antonia, Taurisano FrancescoStudents: 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 | WorksheetsDevices:Smartphone or tablet,Personal computerSoftware application:“app inventor” environment | QuizTestPractical activities | Classroom / LaboratoryOverall 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