GULF ENGLISH SCHOOL YEAR 7 ICT

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| TOPICS: *Robotics* |

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| Theme: Introduction of Robotics | Level: Year 7 |
| Objectives: To be able to define robotics and machine and identify the each hardware parts of robotics (LEGO). | |

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| Focussing Questions | Key Words | |
| 1. **Defining**     * + - What is a Machine?        - What is Robotics?        - What are the differences between machine and robotics?      1. **Introduction**  * What are the essential characteristics of a robot?  1. **Hardware**  * Can you identify blocks? * Can you identify frames? * Can you identify wheels? * Can you identify Shafts and pushes? * Can you identify sensors? * Can you identify Motors?  1. **Building a first Machine**  * *What is a Mechanical Arm?* * What are the required equipment for building Mechanical Arm?   **Assessment**  Using Techno-Mange website’s quizzes.  **Practical- all skills will be a combination of both practical and theory work using interactive resources.** | Machin  Robotics  Frame  Wheels  Blocks  Shafts  Pushes  Adapter  Lego  Motor Mont  Gear  Motors  Sensors  TRM |  |