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.**  | MachinRoboticsFrameWheelsBlocks ShaftsPushes AdapterLego Motor MontGear Motors SensorsTRM |  |