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| **TITLE: Servo Motor** |

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| **LEARNING SCENARIO** |
| ***School:***  | Duration (minutes): | 40 |
| Teacher:  |  | Studentsage: | **12 -13** |

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|  Essential Question: |  |

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| Topics: |
| * Arduino Programing Card and Block coding (Mblock)
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| Aims: |
| * They will understand how to use Servo motors
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| Outcomes: |
| * They will code Arduino with Mblock.
* They will use servo motor
 |
| Work forms:* Work in pairs

Methods: |
| Presentation and Project based Learning |

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| **ARTICULATION** |
| Course of action (duration, minutes) |
| **INTRODUCTION** |
| **Talk about the final project:****We will connect a servo motor to Arduino and code it with Mblock.** |
| **MAIN PART*** Let’s code a servo motor.
* Set up this circuit with Arduino and servo motor.

https://twinspace.etwinning.net/files/collabspace/9/49/449/95449/images/b5610faaa_opt.jpg |
| * **Open Mblock and connect the Arduino**
* **Write this code:**

https://twinspace.etwinning.net/files/collabspace/9/49/449/95449/images/bd9d0c34a_opt.jpgVideo: <https://youtu.be/Fy7cwyKUSGk> **Scenarios for discussion**Where are servo motors used ?  |
| **CONCLUSION****We learnt how to connect the servo motor to Arduino.** |
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| Methods | Work forms |
| *presentation interview**talk demonstration**work on the text role playing**graphic work**interactive exercise /simulation on the computer* | *individual work**work in pairs**group work**frontal work* |

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| Material |
| * Arduino and USB connection Cable
* Computer
* LCD Monitor with I2c module
* Ultra sonic Distance Sensor
* jumper Cables
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| Literature |

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| **PERSONAL OBSERVATIONS, COMMENTS AND NOTES** |
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