**Connections:**

*Table 1: arduino digital pins*

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| **Arduino pin number** | **Component** | **Function** |
| A0 | photoresistor | ambient light detection |
| A1 | TE215 moisture sensor | soil moisture monitoring |
| A2 | LED | water pump indication |
| A3 | LED | nutrient pump indication |
| 2 | HM-10 Bluetooth RX pin | Bluetooth connection and communication |
| 3 | HM-10 Bluetooth TX pin |
| 4 | pump #1 | water pump |
| 5 | DHT11 sensor | temperature & humidity monitoring |
| 6 | LED | temperature indication |
| 7 | LED | light indication |
| 8 | LED | reservoir water level indication |
| 9 | LED | humidity indication |
| 10 | HC-SR04 sensor trig pin | Ultrasonic sensor connection and communication |
| 11 | HC-SR04 sensor echo pin |
| 13 | pump #2 | nutrient pump |
| Vin | 9V alkaline battery | power supply to Arduino |
| 5V | all components except LEDs | power supply to all active parts |
| GND | all components | universal ground |

Other LEDs are connected via analog pins.