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|                      | works   |   |   |
| <b>Main activity</b> |   |   |   |
| Lesson Development   | <p>Teacher will inform the group that they will be designing and constructing a device to measure the intensity of light (light sensor). It will be a group work and at the end of the project, there will be a mini competition to determine the best light sensor.</p> <p>In groups of 4, students will design and construct a light sensor and program it. Groups will be given the opportunity to test their light sensor.</p> <p>On the final day, each team has to present their light sensor.</p> <p>After which, teacher will let the students, in their groups, to use their light sensors to test how much light each material allows to pass through. Each group will be tasked to find the best material to be used as a curtain and present their findings to the class.</p> | <p>Students will be exposed to the world of programming. They will see for themselves how a simple programming device can help them in</p> <p>Students will get the opportunity to understand that different materials let different amounts of light pass through.their everyday life.</p> | <ul style="list-style-type: none"> <li>▪ micro:bit with battery pack</li> <li>▪ laptop with internet access</li> <li>▪ materials</li> </ul> |

**Additional Remarks:**

week 1 (1h) – intro to microbits

week 2 (1h) – teaching how to use microbits – the functions of a light sensor

week 3 (1h) – creation of their light sensor

week 4 (1h) – testing our their light sensor

week 5 (1h) – finalisation of their light sensor