

**Subject** - Information and Communication Technology

**Grade** - 8

**Month** - September

**Week** - 01

**Activiti No:** - 33

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## **5 – Physical Computing**

### **5.1 Introduction to AND Gate**

#### **Student work –**

- Study the lesson carefully. (Pages 55-57 of the Reading Book)
- Ask an adult / teacher to understand difficult lessons.
- Learn lessons related to the lesson through online or printed learning aids.
- Do the activities mentioned in this worksheet and the activities mentioned in your reading book and workbook related to this lesson.
- Discuss and find solutions to your problems while doing activities with your friends, elders and teachers.

#### **Learning-aids that can help with this lesson –**

- E-nenapiyasa - [https://www.enenapiyasa.lk/lms/pluginfile.php/15430/mod\\_resource/content/1/andGate.html](https://www.enenapiyasa.lk/lms/pluginfile.php/15430/mod_resource/content/1/andGate.html)
- Guru Gedara - <https://www.youtube.com/watch?v=f72i8fcng5M>
- Other -
  - ❖ Youtube - <https://youtu.be/vn40IRHIRWI>
  - <https://youtu.be/m9eIVFvKB4w>
  - <https://www.youtube.com/watch?v=NrUgMWvG-1U>
  - <https://www.youtube.com/watch?v=3blG7nyxL5M>

#### **Learning outcomes through this lesson –**

- Names the basic logic gates.
- Detects the functionality of the AND gate.
- Explains the functionality of the AND gate in terms of everyday life situations.
- Answers questions related to the functionality of the AND gate.
- Uses AND gate theories to solve everyday life problems.

**Evaluation / assessment methodology and model –**

Answer the following questions.

1. Name the three basic logical gates.
2. Explain the functionality of the AND gate.
3. Draw the standard code corresponding to the AND gate and write the corresponding Boolean expression.
4. Build the authentication table for the AND gate.
5. Explain three examples of practical uses of AND gate in everyday life.