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L E A R N T O B E D I S T I N C T

# Computing

## Grade \_ 4

**UNIT/STRAND**

**Computational Thinking &  
Programming**

(Networks & Digital Communication – 1 week)

**TOPIC**

**Precise Algorithms**

**Sub Topics**

**Algorithms, Debugging Programs,  
Animal Animations,  
Repeat Commands**

**Session**

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## Digital device

- Digital devices are pieces of hardware that use computers.
- They are found everywhere in the digital world.



## Types of digital device





## What is a Router?

- A box that help devices to connect with the internet.
- Sometime devices cannot connect to the internet.
- Reason:
  - too far from router
  - no internet signals
  - router not working



- Open booklet **page 9 and 10** and solve the given activity.



## Task 1: Identify wired and wireless devices

Look at the following pictures and circle which type of connection each digital device uses, wired or wireless. Careful! Some can use both. In that case circle both words.



Wired / Wireless



Wired / Wireless



Wired / Wireless



Wired / Wireless

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pg. 9



Wired / Wireless



Wired / Wireless



## Algorithm

- It is a set of instructions.
- It can be written instructions, spoken instructions or even diagram.
- Programmers use algorithms to make programs and solve the problems.
- As example recipe to make a juice.
  - Put ingredients like sugar, milk, fruits in the juicer.
  - Start mixing the ingredients.

## Debugging

Zara has written an algorithm for getting dressed.  
Can you find the bug in Zara's algorithm?

1. Put on your trouser.
2. Put on your T-shirt.
3. Put on your shoes.
4. Put on your socks.



## Debugging

- When we take lots of care and even then, there may still be mistakes in an Algorithm.
- These mistakes are called **errors**.
- Errors in algorithms are called **bugs**.
- Correction of error is called **debugging**.





## Booklet - Page 12

**How To Brush Your Teeth**

First \_\_\_\_\_

Next \_\_\_\_\_

Then \_\_\_\_\_

Last \_\_\_\_\_





## Bee-bot

- **Small colorful programmable robot designed for children.**
- **The Bee-bot moves step by step according to the instructions.**
- **Buttons**
  - ✓ **forward**
  - ✓ **backward**
  - ✓ **turn-left**
  - ✓ **turn -right**
  - ✓ **Go**
  - ✓ **Clear**