



## WEEKLY HOME STUDY PACKAGE - WEEK 1 (05/07/21 – 09/07/21)

<b>Subject</b>	<b>Computer</b>	<b>Year/Level</b>	<b>11</b>
<b>Strand</b>	<b>CE 1-Computers and Applications</b>		
<b>Sub-strand</b>	<b>CE 11.1.3 Green Computing</b>		
<b>Content Learning Outcome</b>	<b>Analyze the positive impacts of green computing</b>		

### LESSON NOTES:

#### What is Green computing

- Green computing, also called **green technology**, is the **environmentally responsible use of computers and related resources**.
- Such practices include the implementation of energy-efficient central processing units (CPUs), servers and peripherals as well as reduced resource consumption and proper disposal of electronic waste (e-waste).

#### Why Green Computing?

- So there is no waste and no computer parts that would end up in a landfill or rubbish dumps.
- Computers are made of poisonous materials like lead, chromium, cadmium and mercury. If computers are buried in landfill, they can leach harmful chemicals into waterways and the environment and if burned release toxic contaminants into the air we breathe.
- Green computing saves energy during idle operation, reduce harmful effects of computing resources thereby reducing computing waste

#### Contributing Factors

- Increase in Data centers.
- Widespread use of Desktops/Laptops.

#### A green data center will

- Reduce the cost of running servers.
- Cut cooling costs.
- Use green design and green energy.

#### Reducing server energy cost

- Buy/design energy-efficient servers.
- Better hardware, better power supplies.
- Turn off servers when not in use.

### ACTIVITY

- Define the term green computing (1 mark)

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- Describe the importance of green computing. (2 marks)

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3. Define a data center. (1 mark)

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4. Describe a green data center. (2 marks)

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5. Differentiate between desktop and laptop. (2 marks)

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6. Expand the term e-waste. (1 mark)

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7. State 2 advantages of green computing. (2 marks)

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8. Give 2 examples of green computing practices. (2 marks)

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9. Give another name of green computing. (1 mark)

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10. Describe energy efficient servers. (2 marks)

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