

EaD Comprehensive Lesson Plans



or



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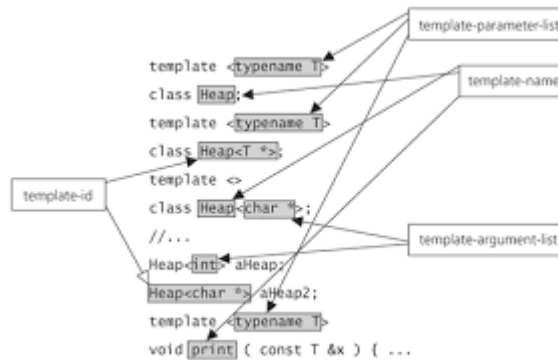
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BASIC 7

WEEKLY LESSON PLAN – WEEK 7

| | | | | | |
|-------------------------------|---|--|--|-----------------------------|---|
| Strand: | Computational thinking | | Sub-Strand: | Introduction to programming | |
| Content Standard: | B7.4.1.1. Show an understanding of the concept of programming | | | | |
| Indicator (s) | B7.4.1.1.1 Demonstrate the correct use of programming terminologies B7.4.1.1.2 Demonstrate understanding in the use of data types (e.g. float, integer, string, char, etc.) B7.4.1.1.3 Demonstrate the use of constants and variables used in Programming | | Performance Indicator: Learners can use Constants and Variables. | | |
| Week Ending | | | | | |
| Class | B.S.7 | Class Size: | | Duration: | |
| Subject | Computing | | | | |
| Reference | Computing Curriculum, BS7 Computing Textbook, Teachers Resource Pack, Learners Resource Pack | | | | |
| Teaching / Learning Resources | Personal Computer, Power point Presentation, Poster | | Core Competencies: | | |
| DAY/DATE | PHASE 1 : STARTER | PHASE 2: MAIN | | | PHASE 3: REFLECTION |
| TUESDAY | Assist Learners to identify and explain Programming terminologies. | <div>1. Discuss with Learners types of Programming Languages</div> <div>2. Learners in small groups to practice correct use of Programming terminologies.</div> <div>3. Discuss the functions of Programming terminologies with the Learners.</div> <div>4. Discuss the meaning of Data type with Learners.</div> <div>5. Assist Learners to identify 5 examples of data type.</div> <div> Algorithm; An algorithm is a set of instructions or rules designed to solve a definite problem. ...</div> <div> Program; A computer program is termed as an organized collection of instructions, which when executed perform a specific task or function. ...</div> <div> API.</div> <div> Argument.</div> | | | Learners brainstorm to explain the examples of data types. Exercise; <div>1. Explain the following;<div><div>i.</div>Algorithm</div><div><div>ii.</div>Program</div><div><div>iii.</div>API</div><div><div>iv.</div>Argument</div><div><div>v.</div>ASCII</div><div><div>vi.</div>Boolean</div><div><div>vii.</div>Bug</div><div><div>viii.</div>Char</div></div> |

- ASCII.
- Boolean.
- Bug.
- Char.



What is programming used for?

Computer programming languages allow us to give instructions to a computer in a language the computer understands. Just as many human-based languages exist, there are an array of computer programming languages that programmers can use to communicate with a computer.



benefits of computer programming;

- Earn a good salary by building skills.
- Flexibility to work from anywhere, anytime.
- Creatively solve real-world problems.
- Develop cool mobile applications.
- Make addictive games that users love.
- Stay ahead of the curve by continually evolving.

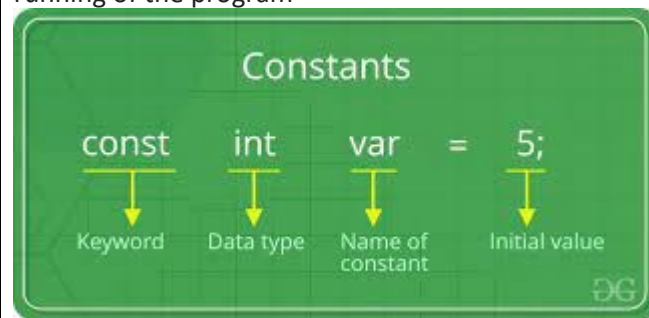
2. Write 3 importance of programming.

A constant is a data item whose value cannot change during the program's execution. Thus, as its name implies – the value is constant. A variable is a data item whose value can change during the program's execution. Thus, as its name implies – the value can vary.

Variables are needed to run all but the most simple computer programs. As a program runs, it needs to hold information in its memory. This may be a number, the answer to a question or something else. Variables allow us to store, change and access this information as the program runs.

How are constants and variables important in developing program?

A program can contain many variables and constants, so it is important **to give them sensible names that try to describe the item of data that they hold.** The key difference between a variable and a constant is: The value stored in a variable can/may change during the running of the program



Name of Teacher:

School:

District: