Lesson Plan Template

Lesson: Programming in Sequence Using Flowcharts

In this lesson, students will focus on interpreting and creating flowcharts. We will use our knowledge of writing simple sequences and subroutines to follow a flowchart and write the code that it represents. This is an introduction to flowchart design and will be built upon throughout the lesson.

I. Objective

Students will be able to:

- Define the flowchart and its elements.
- Write a simple flowchart to practice using the symbols that we have learnt during the lesson.
- Explain the sequence of program in terms of using the flowchart.
- Write a simple python code that is represented using the flowchart.

II. Activities

These are all the activities included in the lesson.

III. Solution References

Refer to the solution reference for a more detailed look at exercise solutions.

IV. Problem Guides

Refer to the problem guides for a more in-depth look at this lesson's problems.

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V. Vocabulary

These are the key terms for this lesson.

VI. Handouts

Use handouts to supplement your class. Please note that there are handouts for teachers and for students.

- For Teachers -
- For Students -

VII. Planning Notes

- Make sure student work ….
- ……
- …..
- ……

VIII. Teaching and Learning Strategies

Lesson Opener:

- Have students brainstorm and write down answers to the discussion questions listed below. Students can work individually or in groups/pairs. Have them share their responses. [5 mins]

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Activities:

- *Choose an activity for demonstrating the concept:* This activity allows students. [10-20 mins]
  - Add …
  - Add …
  - Add …
- Watch video individually or as a class and have students complete the quiz. [5-7 mins]
  - Add …
- Walk through the example from this lesson as a class or have students examine the example in pairs. [3-5 mins]
  - Add …
- Students complete an exercise individually. [5-10 mins]
- Students complete an exercise individually. [5-10 mins]
- Students can complete other exercises activity in pairs or individually if time permits, or for homework. [7-10 mins]

Lesson Closer:

- Have students reflect and discuss their responses to the end of class discussion questions. [5 mins]

IX. Prior Knowledge

- Add here
- …

X. Video Slides

- Add the link here …

XI. Discussion Questions

Beginning of Class:

- Add questions …
  - *(Answers may vary)*

End of Class:

- Add questions …
  - *(Answers may vary)*
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XII. Related Computer Science Standards