



Junior omputer cience

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Grammar Algorithm

Sentence Checker Algorithm

Module Aim

An activity to reinforce grammar rules using computing science concepts. This could be used as a homework activity or as an alternative strategy within a literacy lesson. Pupils convert sentence grammar rules into a flowchart algorithm they can use to check their sentences.

**Time to complete
each activity**
10-15 minutes

Computer Science Concepts

An algorithm is a step by step list of instructions or rules to accomplish something
Rules are easy things to convert into algorithms
Conditional Selection in a flow chart algorithm is represented as a decision diamond

Converting Algorithm to Code

All of these algorithms can be converted into code using a programming language, such as Python, that works well with string manipulation. For primary pupils these are best left as algorithms.

Literacy Aims

Further pupils understanding of grammar rules

National Curriculum Programs of Study

Pupils should be taught to:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- **use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs**

Module

Page 2

Part complete flowchart algorithm for pupils to finish

Page 3

Answer Sheet

Sentence Checker Algorithm



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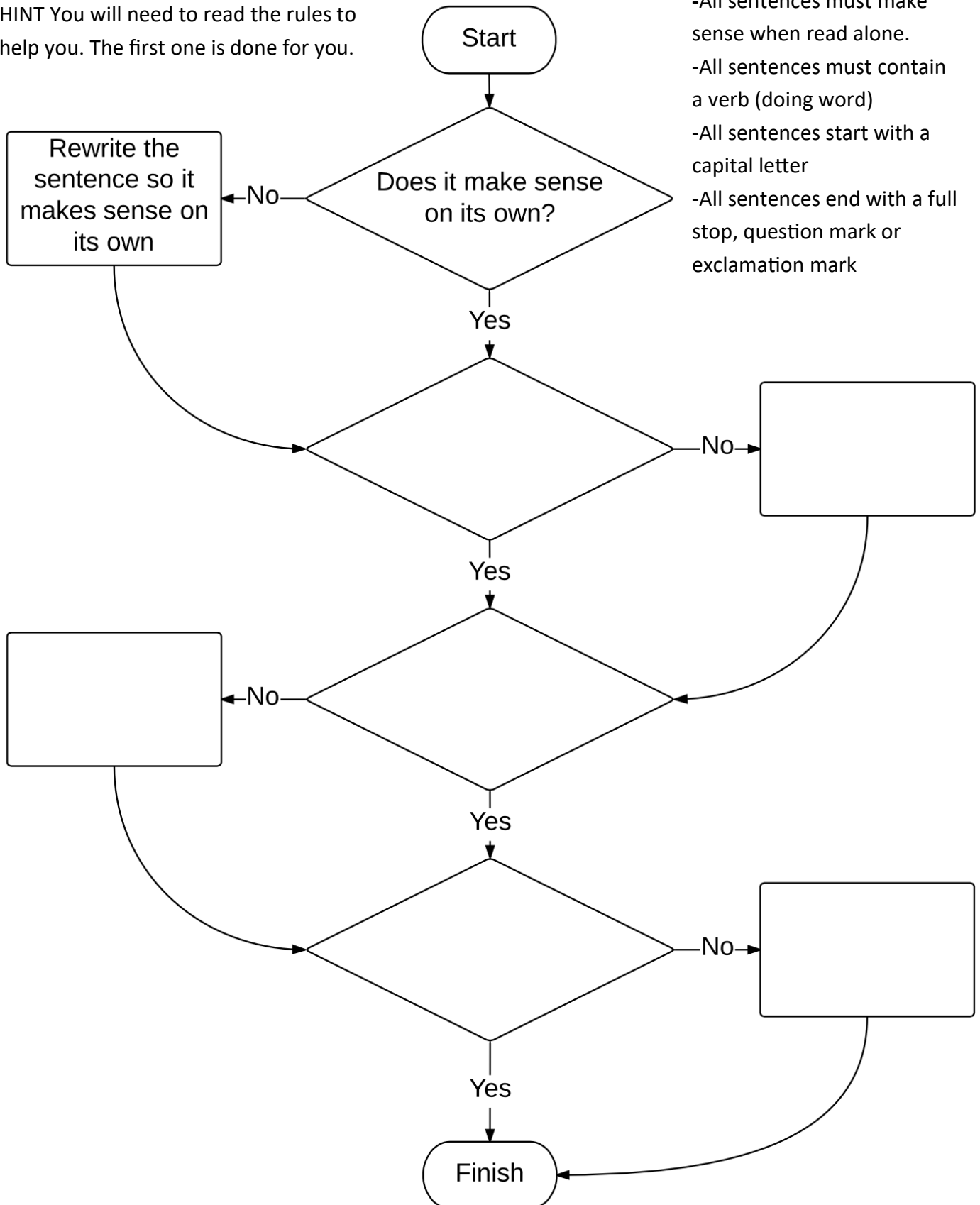
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Complete the flowchart Algorithm

HINT You will need to read the rules to help you. The first one is done for you.

Rules

- All sentences must make sense when read alone.
- All sentences must contain a verb (doing word)
- All sentences start with a capital letter
- All sentences end with a full stop, question mark or exclamation mark



Sentence Checker Algorithm



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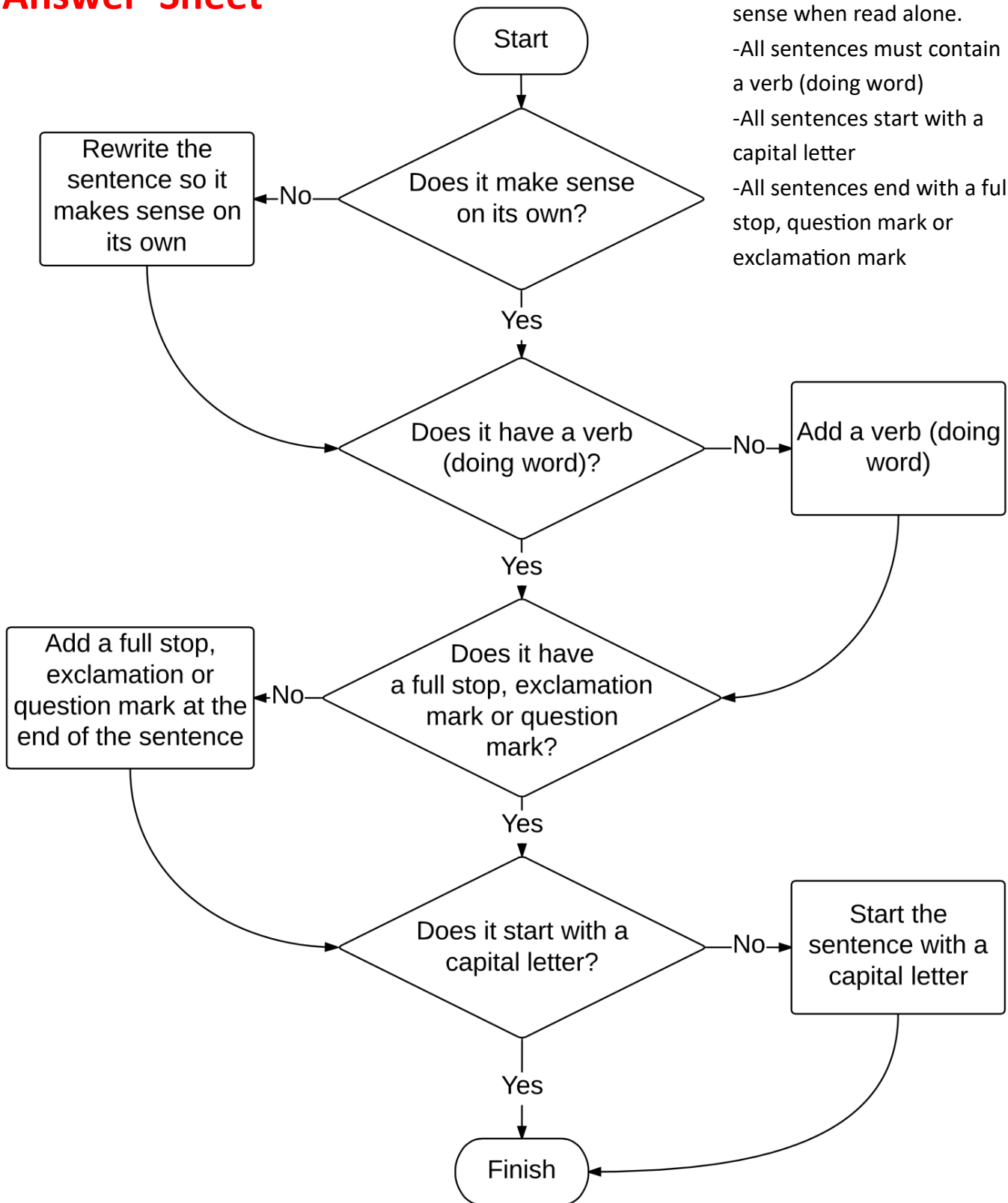
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Answer Sheet

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Writing my own algorithm



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