



Junior computer science

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Spelling Rule Algorithm

ful or fully

Module Aim

An activity to reinforce spelling rules using computing science concepts. This could be used as a homework activity or as an alternative strategy within a literacy lesson. Pupils convert a spelling rule into a flowchart algorithm or use a flowchart algorithm to work out which spelling to use.

**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.

Variety

Some rules have more than one activities so you may match them to pupils abilities or your time needs.

Page 2

Pupils have to part complete the flowchart before testing it with -ful or -fully words.

Page 3

Pupils only need to use the flowchart to test the words.

Page 4

Answer Sheet

Literacy Aims

Further pupils understanding of the spelling 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**

ful or fully



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Information

Suffixes are added to the end of existing words eg taste becomes tasteless

Noun– Person, place or thing

Adjective– Word that describes a noun

Adverb– Word used to give information about a verb, adjective or other adverb

Rules

If the word is a noun or adjective the suffix would be –ful with one l only.

If the word is an adverb the suffix would be –fully

1, Complete the flowchart

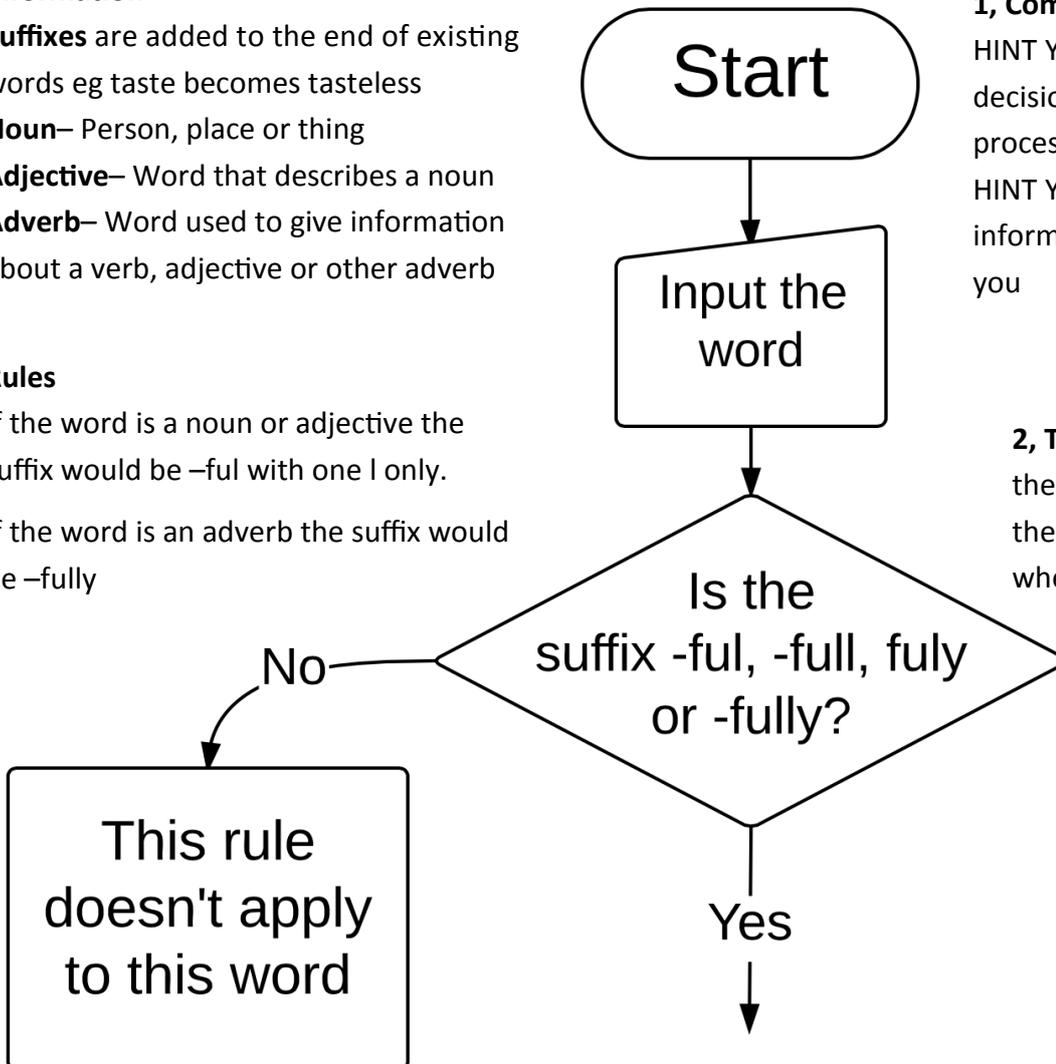
HINT You will need one

decision diamond and two process rectangles

HINT You will need to read the information and rules to help you

2, Test your algorithm

with these words. Write them at the bottom of the flowchart where they would come out.



dreadful
dreadfully
powerfully
faithful
mouthful

ful or fully



Junior

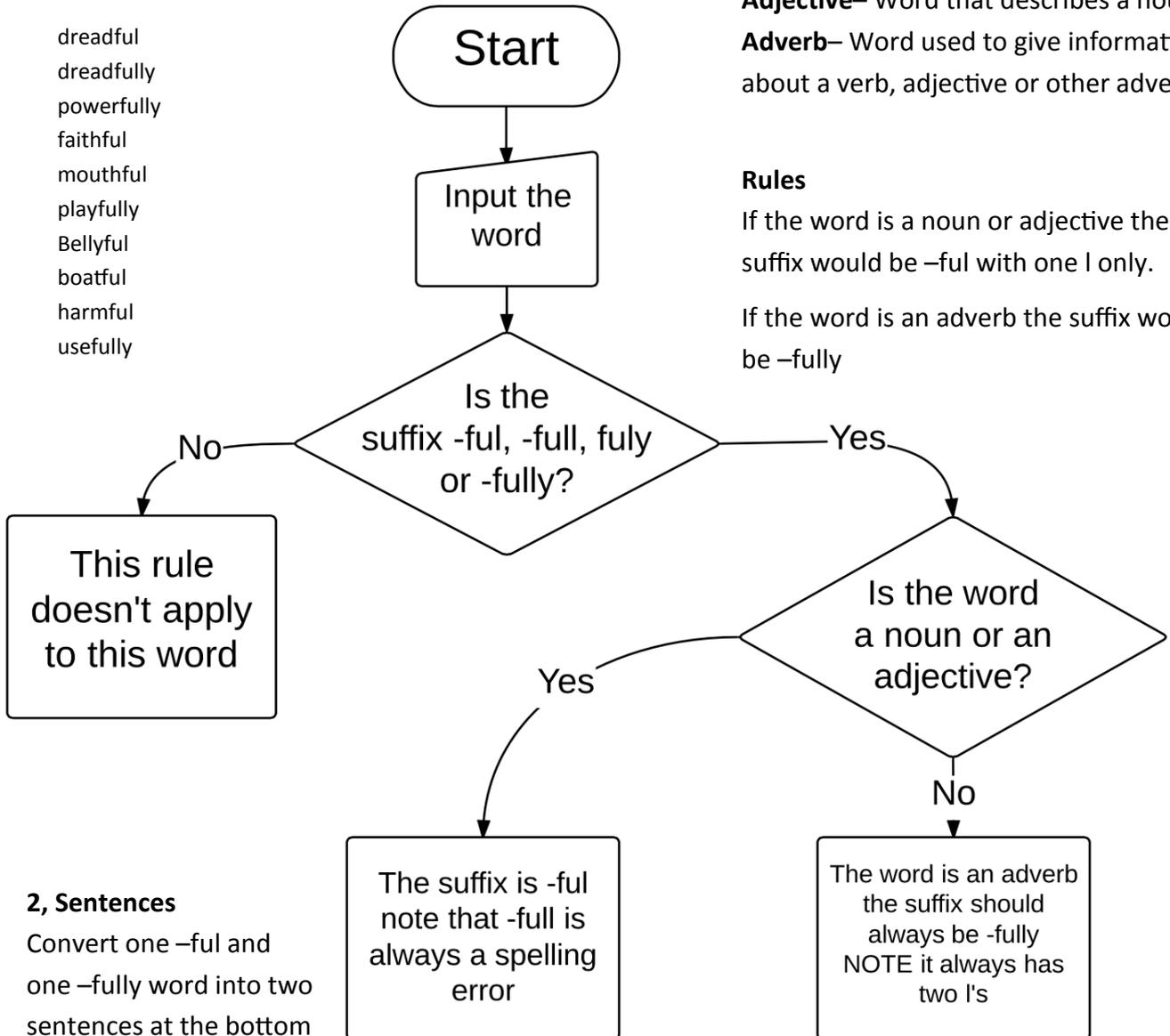
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1, Test the algorithm with these words. Write them at the bottom of the flowchart where they would come out.

- dreadful
- dreadfully
- powerfully
- faithful
- mouthful
- playfully
- Bellyful
- boatful
- harmful
- usefully



Information

Suffixes are added to the end of existing words eg taste becomes tasteless

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Adjective– Word that describes a noun

Adverb– Word used to give information about a verb, adjective or other adverb

Rules

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2, Sentences

Convert one –ful and one –fully word into two sentences at the bottom of the page.



Answer Sheet

1, Test the algorithm with these words. Write them at the bottom of the flowchart where they would come out.

Information

Suffixes are added to the end of existing words eg taste becomes tasteless

Noun– Person, place or thing

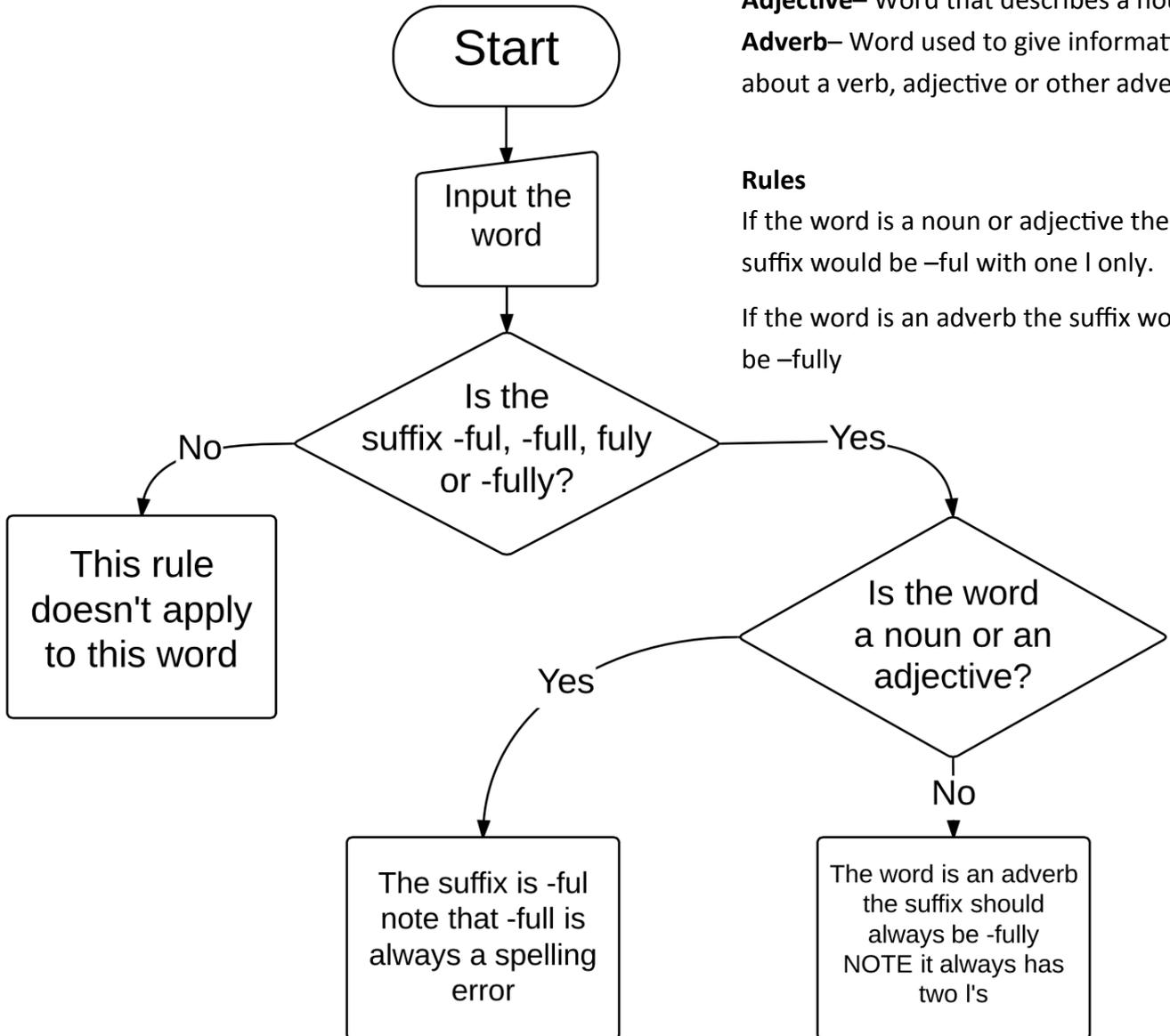
Adjective– Word that describes a noun

Adverb– Word used to give information about a verb, adjective or other adverb

Rules

If the word is a noun or adjective the suffix would be -ful with one l only.

If the word is an adverb the suffix would be -fully



- dreadful
- faithful
- mouthful
- bellyful
- boatful
- harmful

- dreadfully
- powerfully
- playfully
- usefully