



Junior

computer science

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Spelling Rule Algorithm

Adding endings (suffix) to words ending in -y

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 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 flowchart 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 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**

Activities

Page 2

Pupils need to use the flowchart to test the new words created by adding new endings.

Page 3

Answer Sheet

Adding endings to words ending in -y



Rules

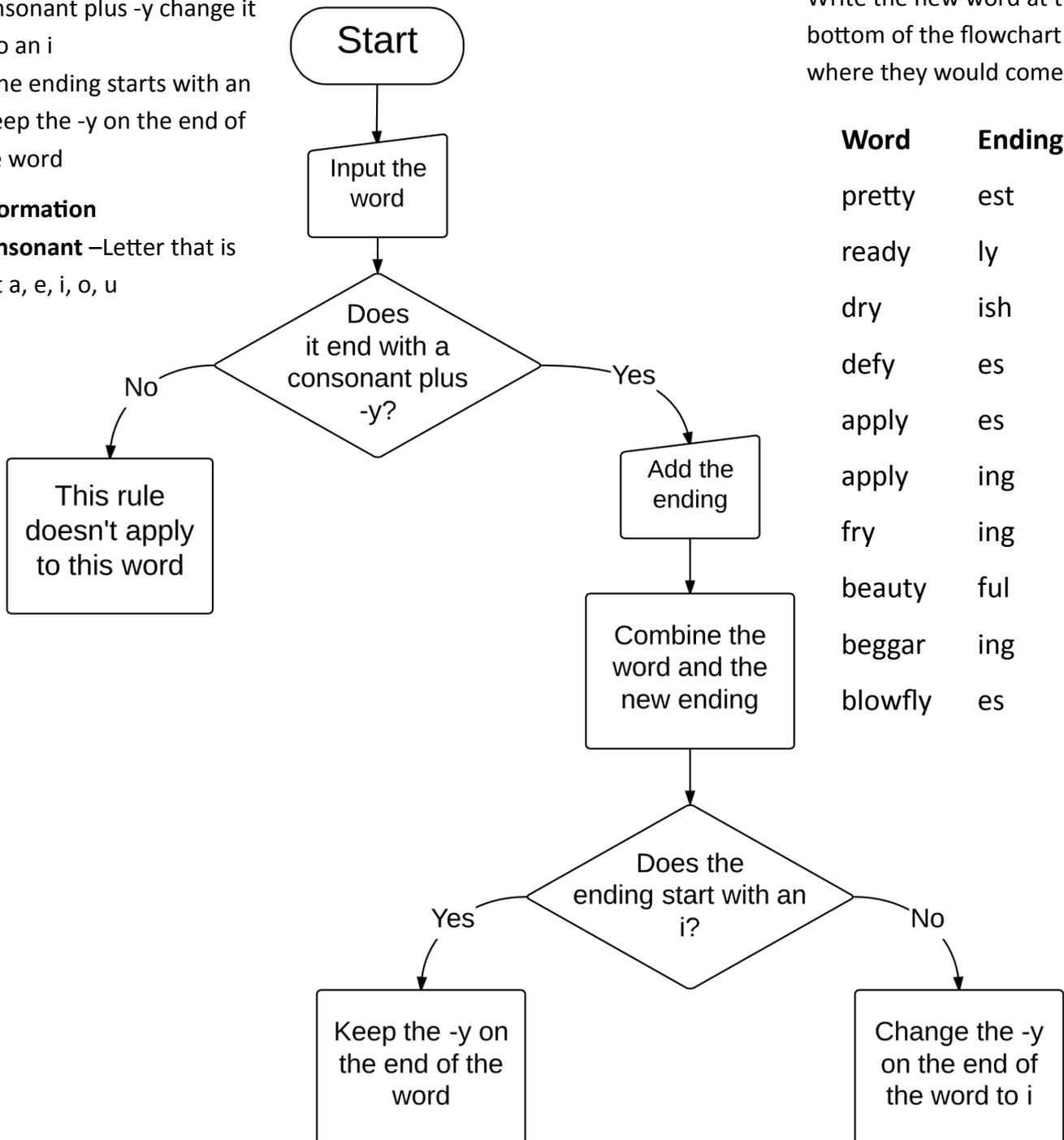
If the word ends with a consonant plus -y change it into an i

If the ending starts with an i keep the -y on the end of the word

Information

Consonant –Letter that is not a, e, i, o, u

1, Test your algorithm with these words and these suffix. Write the new word at the bottom of the flowchart where they would come out.



Word	Endings
pretty	est
ready	ly
dry	ish
defy	es
apply	es
apply	ing
fry	ing
beauty	ful
beggar	ing
blowfly	es

Adding endings to words ending in -y



Rules

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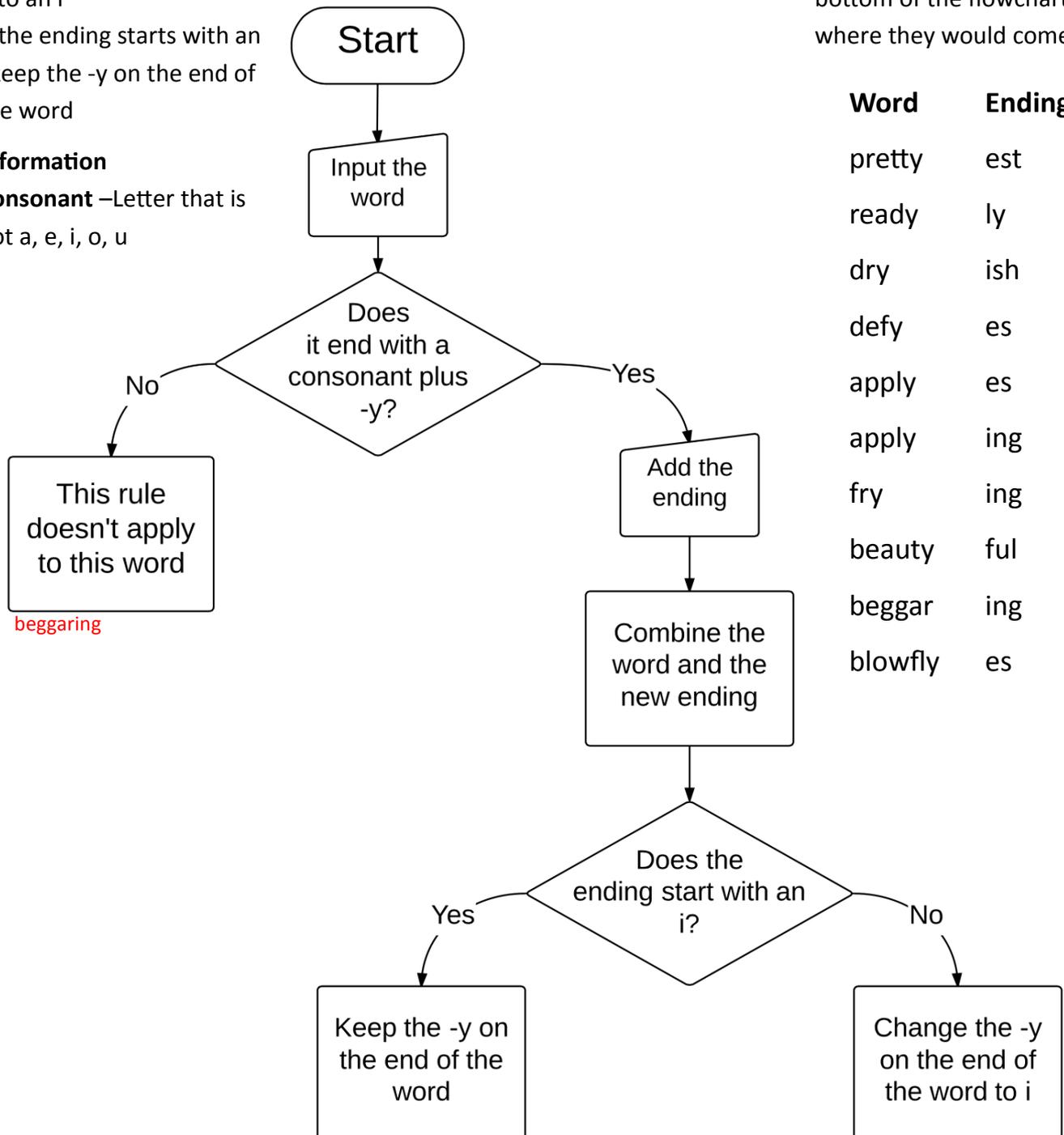
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apply	es
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fry	ing
beauty	ful
beggar	ing
blowfly	es

beggar

dryish, applying, frying,

prettiest, readily, defies, applies, beautiful, blowflies