0	1

The springer spaniel is a breed of 'gun' dog who's excitable nature 'springs' birds into the air for shooting. These dogs have great speed, stamina and a good sense of smell.

0	1	.	1

Describe how these characteristics have been artificially selected **[3 marks]**

Dogs with good sense of smell/speed/stamina are chosen (as a breeding stock) [1]
then allowed to breed together [1]
then their offspring showing those 'desired' characteristics are chosen to breed [1]

0	1	.	2

What is meant by 'artificial selection' **[2 marks]**

choosing the best examples of animals or plants to breed [1] to produce the desired characteristics [1]

0	1	.	3

Suggest why pure pedigree dogs like this are more susceptible to genetic defects **[1 mark]**

less variation (in pure bred animals)/reduced gene pool/existing genetic defects don't get 'diluted'/are at a higher frequency [1]