

13 During the growing season, tomato plants produce flowers and fruits.

Which parts of a growing tomato plant are sources, and which parts are sinks?

	flowers	fruits	leaves
A	sink	sink	source
B	sink	source	sink
C	source	sink	source
D	source	source	sink

13 What is translocation?

- A** the movement of amino acids and water from sink to source
- B** the movement of starch and water from source to sink
- C** the movement of sucrose and amino acids from source to sink
- D** the movement of sucrose and mineral ions from sink to source

14 Which statements describe sources and sinks?

- 1 Palisade mesophyll cells only act as sinks.
- 2 Roots can act as sinks.
- 3 Sink cells only receive glucose from the phloem.
- 4 Spongy mesophyll cells can act as sources.

- A** 1, 2, 3 and 4
- B** 1, 3 and 4 only
- C** 1 and 3 only
- D** 2 and 4 only

- 14** In some countries, spring is the time of year when daffodil plants have green leaves and produce flowers.

Which parts of the daffodil plants act as sources and sinks in spring?

	flowers	leaves
A	sink	sink
B	source	source
C	sink	source
D	source	sink

- 14** Which structures in humans and in plants normally carry amino acids?

	arteries	phloem
A	yes	yes
B	yes	no
C	no	yes
D	no	no