

18.5 ASEYUAL REPRODUCTION



In this worksheet you will learn about asexual reproduction in plants, bacteria and fungi. Asexual reproduction is where there is just one parent.

special words

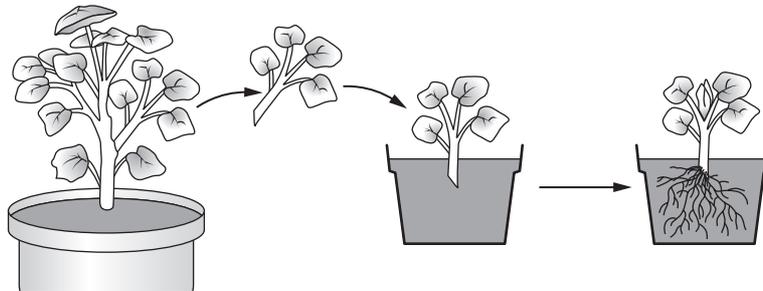
- asexual reproduction
- cutting
- bulb
- runner
- bacteria
- splitting in two
- fungi
- spore

When there is reproduction with only one parent it is called asexual reproduction. New organisms made this way are exactly the same as the parent. This is because the genetic message is from just one parent. It is different from sexual reproduction where the new organisms have a genetic message from two parents.

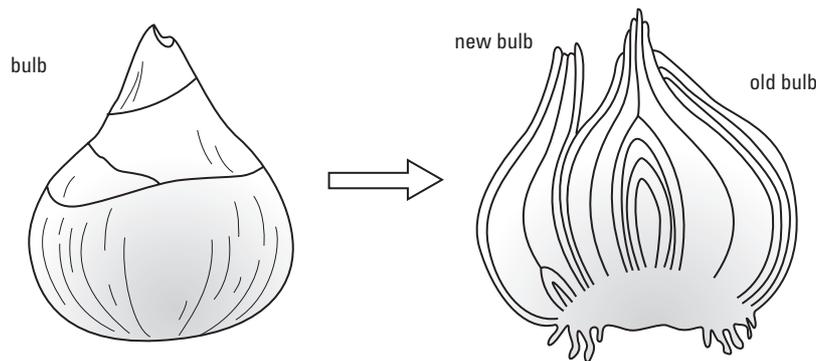
Types of asexual reproduction in plants

There are many different types of asexual reproduction in plants. Some of them are:

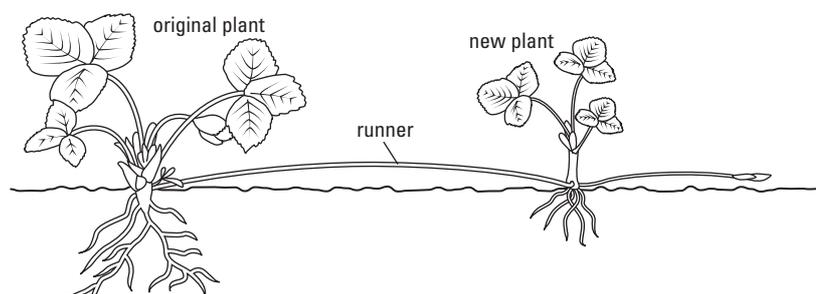
- 1 **Cuttings:** This is simply taking a small piece of a plant, putting it in some potting mix and waiting for it to grow. You might like to try this at home with a small piece of geranium plant.



- 2 **Bulbs** reproduce from a swelling at the bottom of the old bulb growing into a new bulb. Daffodils and tulips reproduce like this.



- 3 **Runners** are long thin stems that run underground and new plants form at the end of these. Strawberries reproduce like this.



These are just some of the ways that plants reproduce asexually.

Asexual reproduction in other organisms

Bacteria reproduce by splitting into two. Some can do this every 20 minutes and so can grow very quickly. This is one of the reasons why some bacteria can cause disease. They start in our bodies with small numbers and in a very short time grow into very large numbers.



Fully-grown cell



Nuclear material divides.



Cross wall starts to form.

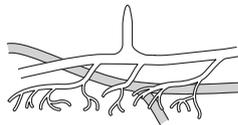


Daughter cells separate.

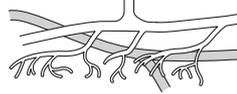
Fungi

Fungi reproduce by making spores that grow into new hyphae.

A branch begins to grow upwards away from the feeding hyphae.



Spores case and spores



Spore case bursts open releasing the spores.



Fungi forming spores

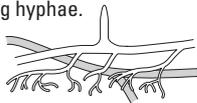
To do



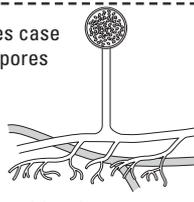
- 1 Complete the jigsaw puzzle on the next page. Cut out all the drawings from below.
- 2 Colour in each of the drawings.
- 3 Paste each one under the matching headings.



A branch begins to grow upwards away from the feeding hyphae.

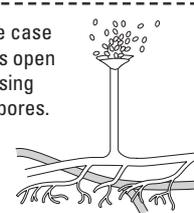


Spores case and spores



Fungi forming spores

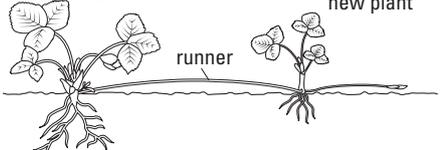
Spore case bursts open releasing the spores.



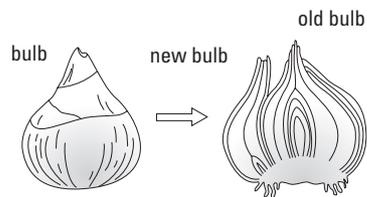
original plant

new plant

runner



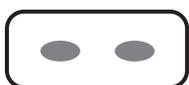
Fully-grown cell



old bulb

bulb

new bulb



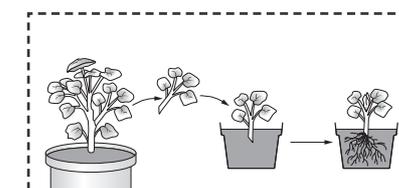
Nuclear material divides.



Cross wall starts to form.



Daughter cells separate.



continued

18.5

To do



Runners	Bulbs	Bacteria splitting in two
Cuttings		
Spore formation		

Wordfind puzzle

Find the words listed in the Wordfind puzzle

Y	A	S	E	X	U	A	L	R	E	P	R	O	D	U	C	T	I	O	N
B	S	K	W	S	I	E	E	D	G	V	U	J	H	S	U	U	R	E	Y
A	U	V	J	S	P	L	I	T	T	I	N	G	I	N	T	W	O	R	Y
C	S	B	X	M	Q	O	A	Y	X	A	N	F	W	K	T	O	E	Q	X
T	Z	G	K	P	B	V	R	N	E	A	E	F	U	Q	I	A	X	N	L
E	V	B	N	H	D	F	E	E	E	H	R	O	A	N	N	E	T	B	F
R	V	L	E	J	B	U	L	B	S	Y	S	O	T	C	G	O	K	D	L
I	J	R	N	V	Z	Y	R	Y	Z	D	V	I	Q	X	S	I	R	U	L
A	I	A	E	M	U	C	Q	F	M	S	V	M	I	J	N	V	I	M	J
A	V	E	D	R	J	C	V	M	Q	P	L	G	P	E	S	Q	Y	Y	G

Word list:

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|----------------------|------------------|
| asexual reproduction | splitting in two |
| bulbs | cuttings |
| spores | bacteria |
| runners | fungi |