

		А	В	С		
1	Differences in characteristics within a species is called	Variation	Evolution	Natural Selection		
2	Which is an example of inherited variation?	Body mass	Blood group	Hair colour		
3	Which is an example of environmental variation?	Tattoo	Blood group	Hair colour		
4	Where is the genetic information found in a cell?	Mitochondria	Nucleus	Ribosome		
5	Which is an example of both types of variation?	Body mass	Blood group	Hair colour		
	I Do	We Do		íou Do		

Biology: Continuous and Discontinuous Variation

		ooquonoo
Tier 3 Vocabulary:	Definition:	Variation
Discontinuous variation	Characteristics with values that do not overlap – they can only be one thing or another e.g. blood type	Continuous and discontinuous variation
Continuous variation		
Bar chart	A chart with gaps between bars to show discontinuous data	
Histogram	A chart with no gaps between bars to show continuous data	Variation
		Inheritance

Inheritance Learning

sequence

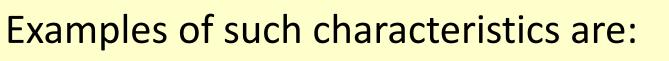
Grade	Outcomes	Innentance
KNOW		Natural Selection
	State what is meant by continuous and discontinuous data.	
		Extinction
	Use examples to describe the difference between continuous and discontinuous	
APPLY	variation.	End of Topic Test
ANALYSE	Choose and justify the most appropriate graph to display examples of variation	Review & Feedback
	data.	V

Continuous Variation

- 1) Human height is an example of continuous variation.
- 2) It ranges from that of the shortest person in the world to that of the tallest person. Any height is possible between these values. So it is continuous variation.

We Do

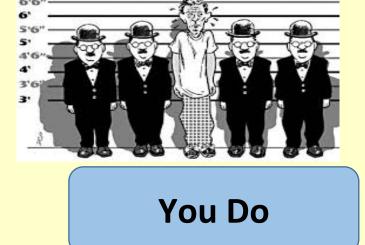
 For any species a characteristic that changes gradually over a range of values shows continuous variation.



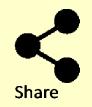
- a) height
- b) weight

l Do









Continuous Variation

Share

Continuous data is displayed in a graph.

Categories are put into groups



Choose and justify the most appropriate graph to display examples of variation data.

Discontinuous Variation

Share

Write

You Do

 A characteristic of any species with only a limited number of possible values shows discontinuous variation.

O-

O+

A-

 Human blood group is an example of discontinuous variation. In the ABO blood group system, only four blood groups are possible (A, B, AB or O). There are no values in between, so this is discontinuous variation.

B-

We Do

AB-

AB+

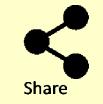
Here are some examples:

- a) blood group
- b) sex (male or female)

I Do

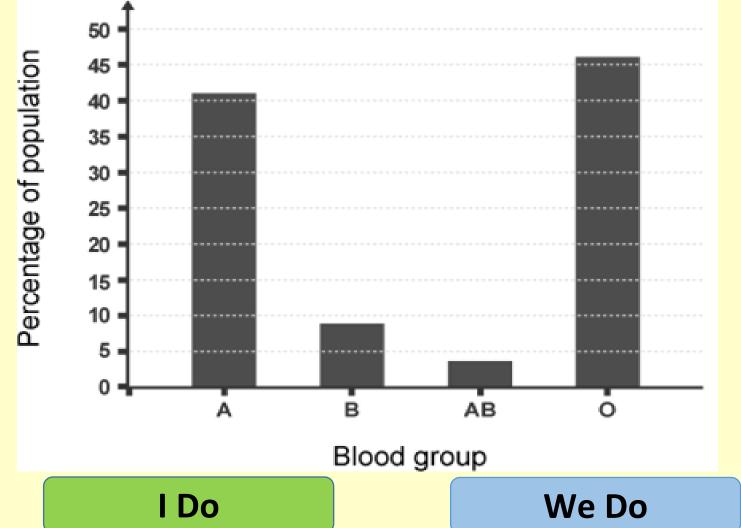
c) eye colour

State what is meant by continuous and discontinuous data.



Discontinuous Variation

Discontinuous data is displayed in a graph.



How can data from continuous and discontinuous phenotypic features be used to show traits in a population?

You Do

Choose and justify the most appropriate graph to display examples of variation data.

Discontinuous and Continuous Variation

We are going to investigate the classes data.

We are going to:

- a) Record each students eye colour
- b) Measure each students hand span

Instructions:



2) Move around the class and collect the data.

Task: Use this information to record your results on a graph.



