

QUESTION	ANSWER
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Quiz Cards:

How to use the quiz cards to learn the key facts

- 1) Take 6 quiz cards at a time and read through them
- 2) Cover up the answer side of the page.

Question	Answer
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- 3) Take the first quiz card and ask yourself the question. Either write the answer down or say it out loud.
- 4) Check your answer using the answer side of the card.
- 5) Do this question again until you get it right.
- 6) Repeat the process for the second question.
- 7) Before going onto the third question repeat question one and two.
- 8) When you have gone through all of the questions try and do them in a random order to really test your knowledge.

ONCE YOU HAVE LEARNT THEM ALL

- 9) Complete some exam questions to apply your knowledge.
- 10) Check your answer with the mark scheme and correct any errors in green pen.
- 11) Repeat steps 9-10 until you get the answers correct all of the time.

QUESTION	ANSWER
What is asexual reproduction?	Reproduction involving one parent, there is no fusion of gametes and the offspring produced are genetically identical
What is sexual reproduction?	Reproduction involving the fusion of male and female gametes. This leads to a mix of genetic information which produces variation in the offspring
Which type of cell division leads to the formation of gametes?	Meiosis
How many times does a cell divide during meiosis?	Twice
How many gametes are formed during meiosis?	Four
Why is meiosis important?	Because it halves the number of chromosomes in gametes (sex cells)

QUESTION	ANSWER
An advantage of sexual reproduction is	It produces variation in the offspring so that if the environment changes any variation means that at least some of the organisms will survive
An advantage of asexual reproduction is	It is more time and energy efficient, as the organism does not need to find a mate
What is the name of the chemical that makes up the genetic material in the nucleus of a cell?	DNA
What is a gene?	A section of DNA that codes for a particular sequence of amino acids to make a protein
What is a genome?	The entire genetic material of an organism
What is a mutation?	A change in the DNA structure

QUESTION	ANSWER
What is an allele?	A different form of the same gene
What does homozygous mean?	The two alleles present are the same
What does heterozygous mean?	The two alleles present are different
What is polydactyly?	Having an extra finger or toe and it is caused by a dominant allele
What is cystic fibrosis?	A disorder of the cell membranes and it is caused by a recessive allele
What do we call the differences in the characteristics of individuals in a population?	Variation

QUESTION	ANSWER
Define Evolution	Evolution is the gradual change in the inherited characteristics of a population over time
Who put forward the theory of natural selection?	Charles Darwin
What is selective breeding?	The process where humans breed plants and animals with particular, desirable characteristics
What is Genetic Engineering?	A process that changes the characteristics of an organism by introducing a gene from another organism
Give two uses for Genetic Engineering	Producing plants resistant to diseases and plants that produce bigger, better fruits
What are fossils?	The remains of organisms from millions of years ago that are found in rocks.

QUESTION	ANSWER
What can we learn from fossils?	How much or how little organisms have changed as life developed on Earth.