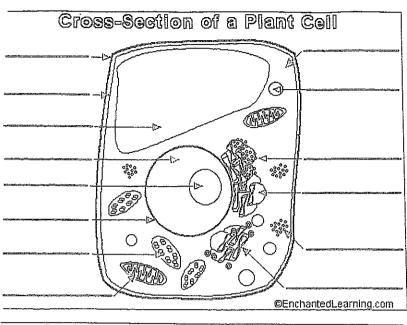
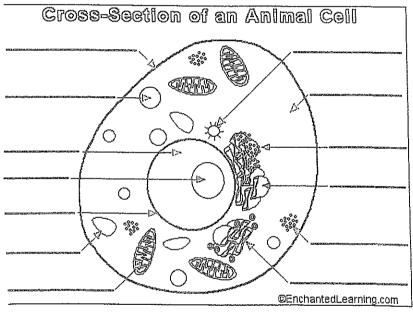
1. Label goved indicate functions of organelles





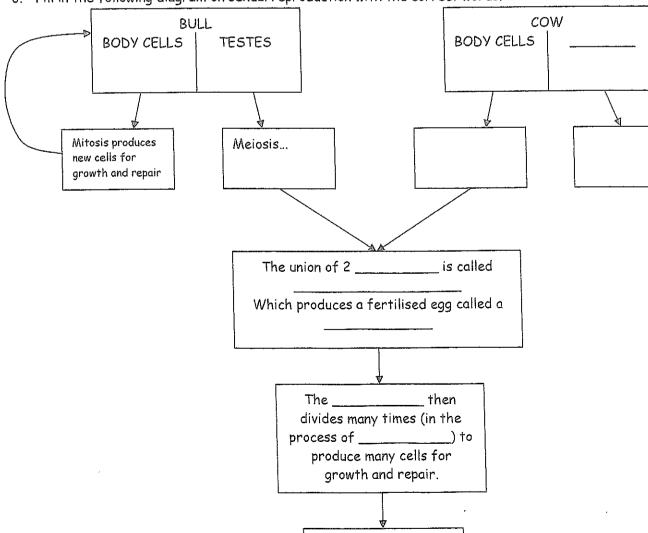
es of asexual reproduction and explain how each produces new offspring.
) (

4. Fill in the following table. Give 2 different types of sexual reproduction and explain how each produces new offspring. What are the advantages and disadvantages of each method?

rspring. What are the ai	availinges and disadvantages of each	
SEXUAL REPRODUCTIVE METHOD	ADVANTAGES	DISADVANTAGES
1. The new offspring are		The eggs could be washed away or by another animal so the potential losses could be great.
produced by		The potential losses could be given.
2.	The gametes remain in a watery environment during transfer and	
The new offspring are produced by	therefore they don't dry out.	

5. Which type of reproductive method is the best? Why? (Explain your answer.)

6. Fill in the following diagram on sexual reproduction with the correct words.



New offspring (calf)

7. A chromosome is a structu	re that holds our genetic r	niormation.
Q- Name the chemical that mal A-		
Q- Name the chemical that pai A-		
Q- Name the two substances the A-	nat make up the backbone o	f a chromosome.
Q- How many chromosomes a	are found in a human bone c	ell?
A-Q-Sperm and ova are known a		
Q- Define a zygote. A-		
Q- How many sets of chromo A- Q- Name the type of cell divi		
A-		
Q- Complete the following to	able. (Change font colour to	black for the answers).
	Meiosis	Mitosis
Type of daughter cell		
Number of cell divisions		
Place of occurrence		
State of daughter cells		
Number of daughter cells		
స్తే. Define these terms.		
a Autosome	b Karyotype	
How many chromosomes do h	umans have in:	
a skin cells?	b liver cells?	€ sperm?
d ovum?	e nerve cells?	-
Describe how the sex of a hum		
Describe now the sex of a num	iuii oabj to accertance	
		dhah ara ara ara

10.

A karyotype of a human baby is shown at the right.

- a What sex is the baby? Explain how you know.
- b How many chromosomes does the baby have?
- How many chromosomes did the mother pass on to baby?
- d How many chromosomes did the father pass on to baby?
- € How many chromosomes are there in the mother's skin cells?
- f How many chromosomes are there in the mother's eggs?
- g How many chromosomes are there in the father's sperm?
- h How many chromosomes are there in the father's skin cells?

	88	NK		36	88
1	2	3	4	5	6
KA	ik	AX	NN	XX	M
7	8	9	10	11	12
	٨ħ	11	KH	88	RA
13	14	15	16	17	18
111	aa	ah	a a		Na
19	20	21	22		23

Karyotype of a human baby

the following diagram of a DNA molecule. What is found in the real thing but not shown in th m? What is most likely to occur at the 2 ends of the diagram?	e following
	

9090				
\cap \sqcup	\square	\forall	\longrightarrow	
4000				

- 12. Wound up DNA does not look like the diagram in question 11.
 - a. Draw a labelled sketch of what a wound up DNA molecule looks like.

b.	Why are there 2 forms of DNA? One wound up and the other unwound.		

13. Fill in the following table which shows the difference between Meiosis and Mitosis.

	MITOSIS	MEIOSIS
WHERE OCCURING		
No. OF DIVISIONS		
No. CELLS PRODUCED		
HAPLOID/ DIPLOID CELL		
USED FOR		