Transition Tasks

Task 1: Write the function of each structure

Structure	Function
Cell membrane	
Chloroplasts	
Vacuole	
Mitochondria	
Nucleus	
Cell wall	
Chromosomes	
Ribosomes	

Task 2: Complete the diagrams

Draw the structure of a plant and animal cell. Label each structure

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Task 3: Complete the table

	Photosynthesis	Aerobic respiration
Which organism carry out this process		
Where in the organism does this process take place?		
Energy store at the beginning of the process		
Energy store at the end of the process		
Reactants		
Products		
Word equation		
Symbol equation		

Task 4: Fill in the definitions

Keyword	Definition
Diffusion	
Osmosis	
Active transport	

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Task 5: Complete the punnett squares

Huntington's disease is an example of a disease where the mutation causing the disease is dominant.

h: normal (recessive)

H: mutation (dominant)

		Paternal alleles	
		H	h
Maternal alleles	h		
	h		

Cystic fibrosis is an example of a disease where the mutation causing the disease is recessive.

F: normal (recessive)

f: mutation (dominant)

		Paternal alleles	
		F	f
Maternal alleles	F		
	f		

For each of the Punnett squares:

1. Complete the diagrams to show the alleles for each child.
2. State which parent and child is:
    - healthy
    - has the disease
    - a carrier.

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Task 6: Answer the questions on punnett squares

Each of the following statements is false. Re-write each one so that it becomes true.

1. The first Punnett square shows that one in every four children from this couple will have Huntington's disease.

2. The second Punnett square shows that there is a one in three chance that a child born to this couple will have cystic fibrosis.

3. All children of the second couple will either be carriers or suffer from cystic fibrosis.

4. The percentage of children who are sufferers on the diagram is the same as the percentage of children each couple will have who are sufferers.

5. Having one child who is born with cystic fibrosis means that the next three children will not have the disease.

6. A 50:50 chance is the same as a 0.25 probability.

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