

2. Segment 4: Cellular Breathing Assignment

1. Which cells are performing cellular respiration? Which? Why?

Answer: plant mitochondria in chloroplasts, animal mitochondria, human lungs and other organs

2. Define the following terms:

a. Chloroplast: chloroplasts convert solar energy into chemical energy

b. Photosynthesis: process for producing

c. Photosynthesis: chloroplasts are in the chloroplast

d. Photosynthesis: chloroplasts are in the chloroplast

e. P generation: first breeding parents

f. P generation: hybrid offspring of P generation: first offspring

g. F1 generation: first offspring from P1 parental generation

h. Mendel's laws: principles of inheritance that describe how genetic information is passed on

i. Mendel's laws: Mendel's laws are the principles of inheritance that describe how genetic information is passed on

j. Mendel's laws: the principles of inheritance that describe how genetic information is passed on

k. Mendel's laws: the principles of inheritance that describe how genetic information is passed on

l. Mendel's laws: the principles of inheritance that describe how genetic information is passed on

m. Mendel's laws: the principles of inheritance that describe how genetic information is passed on

3. In pea plants, seeds, color is determined by a gene. If the genotype is

YY, the plant will produce yellow seeds. If the genotype is yy, the plant will produce green seeds. If the genotype is Yy, the plant will produce yellow seeds. If the genotype is Yy, the plant will produce yellow seeds.

4. Genes are passed on to offspring from both parents. If a parent has

YY, the offspring will have YY. If a parent has Yy, the offspring will have Yy or yy.

If a parent has yy, the offspring will have yy. If a parent has Yy, the offspring will have Yy or yy.

5. Which trait is dominant? (dominant) and which is recessive? (recessive)

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**AN Whitehead**



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