

Topic 18: Rhotosìfnthesis and Cellular Respiration MC.3.B.1 Name:

Wr'ife ObjecTive

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TheßhlomplasLand M\_inghQnam

In plants, photosynggesis takes place in chloroplasts.

Inside çhjggplastsìare saelike membranes called thylakoids.

These thquëgmjgsäare arranged in stacks.

A stack of thylakoids is called a granum.

T1@ reactions occur in the jngylakqigzrgçlllbranes.

The Calvin1 \_Quia 0r light-independent reactions Occur in the stroma.

ln the diagram of the chloroplast, label thylakoid, stroma, and the granum. Color it green.

ln the diagram above, label inner membrane, inter-membrane space, matrix, and outer membrane.

ln plant and animal cells, the final stages of cellular respiration take place in mitochondria. A mitochondrion has two membranes.

The inner membrane is folded up inside theßulemm

The space between the \_inner and Quter membranes is called the inter

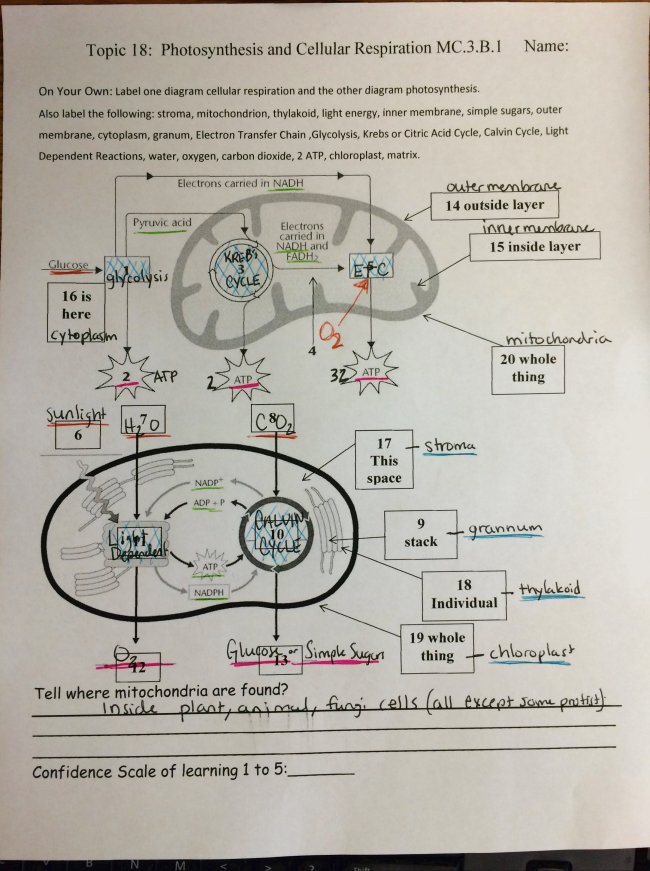
membrane s ace. The mace inside t

'ile space im@ innermßmllëlßlis Called the matrix.

The first Stage ÍS ggg/:Sig and it occurs in the cytoplasm Outside ofthe mitochondrion.

Theißgebs or Citrgé' Y cid Cïcle occurs in the inner membrane sgace.

The Electren Trgnßïpgain is located 0n the 'inner membrane.



Topic 18: Photosynthesis and Cellular Respiration MC.3.B.l Name:

On Your Own: Label one diagram cellular respiration and the other diagram photosynthesis.

Also label the following: stroma, mitochondrion, thylakoid, light energy, inner membrane, simple sugars, outer

membrane, cytoplasm, granum, Electron Transfer Chain ,Glycolysìs, Krebs or Citric Acid Cycle, Calvin Cycle, Light

Dependent Reactions, water, oxygen, carbon dioxide, 2 ATP, chloroplast, matrix.

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Eleftmns Garges! in NADH

UDM

mmm 14 outside layer

m

15 inside layer

Confidence Scale of learning 1 To 51