## Peptide Transporter Glucose Transporter **Protein Degradation Protein Stock** -10 ATP **Glucose Stock** -1 protein or enzyme +10 Amino Acids **Structural Proteins** 10 for cell division Amino Acid Stock **Protein Synthesis Glycolysis** -10 ATP -1 glucose 10 Amino acids +6 ATP Amino Acid Metabolism + 1 protein or enzyme +2 pyruvate -10 Amino Acids -10 ATP +10 pyruvate **Membrane Lipids** 10 for cell division **Pyruvate Stock Lipid Stock** Carnitine **MITOCHONDRIA Fatty Acid** Metabolism -20 ATP - 1 lipid (1<sup>st</sup> Turn) **Ac-CoA Stock** + 15 Ac-CoA (2<sup>nd</sup> Turn) Citric Acid Cycle and Oxidative Phosphorylation -1 CoA +12 ATP RESERVED SALVAR SALVAR SE **CYTOSOL**

## Cellular Metabolism Gan Cell Board

To Do Cell Division: \*divide them evenly betwe n boards
At least 2 of every enzyme\*
At least 10 Membrane Lipids \*
At least 10 Structural Proteins\*

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