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## PHYSICAL SCIENCES PAPER 2 (CHEMISTRY)

GRADE 12

### TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



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web amount of cellular respiration occurring in yeast cells many environmental factors affect cellular respiration in yeast cells designing controlled experiments to determine the answer to a research question involves hypotheses dependent variables independent variables controlled variables experimental groups and control groups

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web yeast is a slightly unusual organism it is a facultative anaerobe this means that in oxygen free environments they can still survive the yeast simply switches from aerobic respiration requiring oxygen to anaerobic respiration not requiring oxygen and converts its food without oxygen in a process known as fermentation

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web aerobic respiration produces up to 38 atp molecules from one glucose molecule fermentation produces about 2 atp molecules from one glucose molecule and glycolysis also produces 2 atp molecules table 1 yeast fermentation data escience labs post lab work summary cellular respiration questions why is cellular respiration necessary for

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web worksheet print worksheet 1 what is aerobic respiration the process of making atp and carbon dioxide from glucose and oxygen the process of making atp and ethanol from glucose and carbon

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web the reactions within cells which result in the synthesis of atp using energy stored in glucose are referred to as cellular respiration aerobic respiration requires oxygen as the final electron acceptor fermentation does not require oxygen the equation for aerobic respiration is below

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web the equation for cellular respiration is below  $C_6H_{12}O_6 + 6 O_2 \rightarrow 6 H_2O + 6 CO_2 + ATP$  in this lab we will observe yeast cells performing cellular respiration yeast are facultative anaerobes this means that if oxygen is present they will use cellular respiration

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web jul 12 2023 this part of the lab investigates aerobic cellular respiration by *saccharomyces cerevisiae* also referred to as baker's yeast and brewer's yeast yeast is a unicellular fungus that can convert glucose