**Knowledge organiser for KS5 Biology Respiration at Saint Ambrose College 2020+**

**What is covered in this unit?**

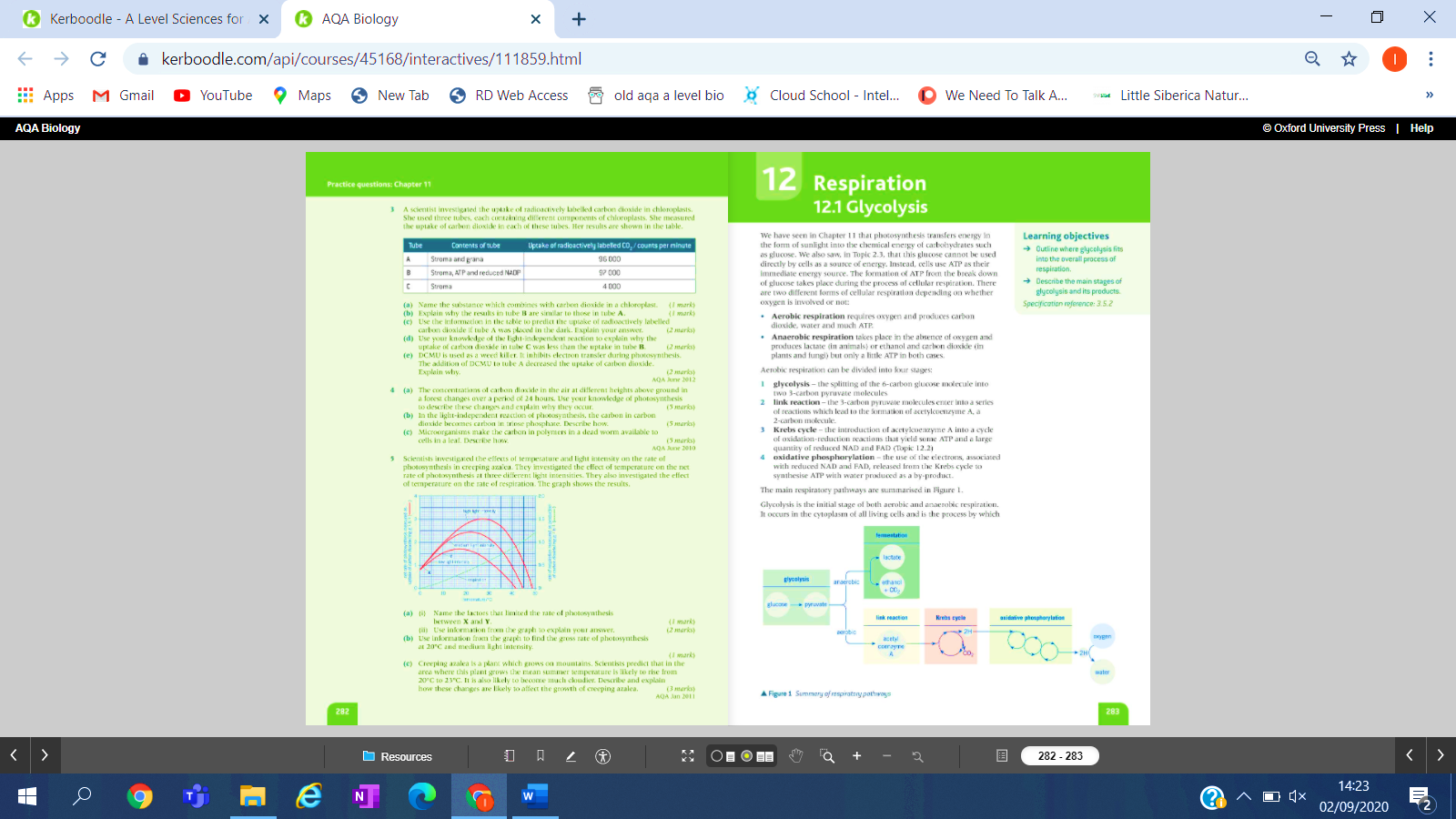
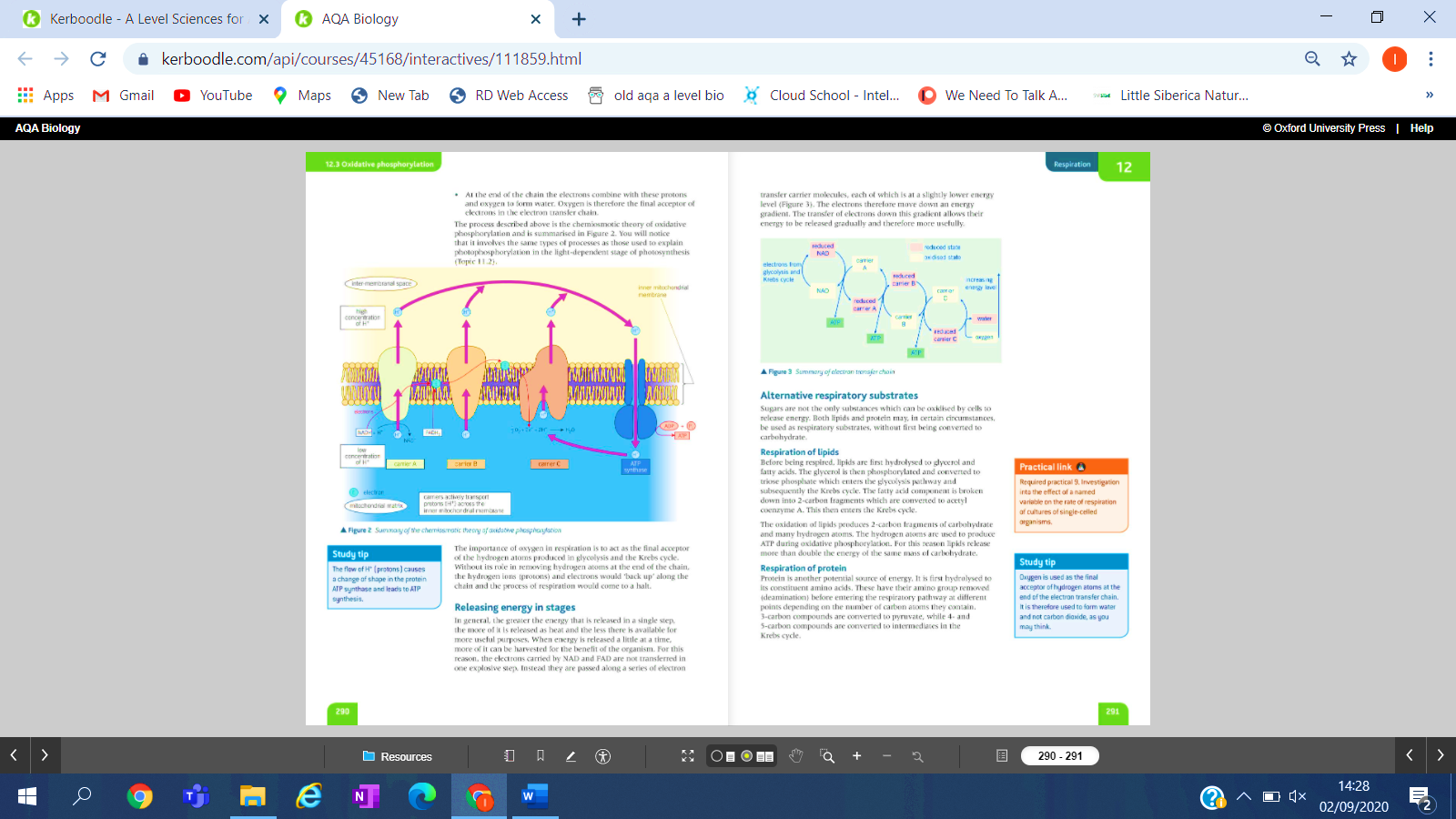
Production ATP; Glycolysis; Anaerobic respiration and conversion of pyruvate; Aerobic respiration in detail, link reaction and Krebs cycle, oxidative phosphorylation

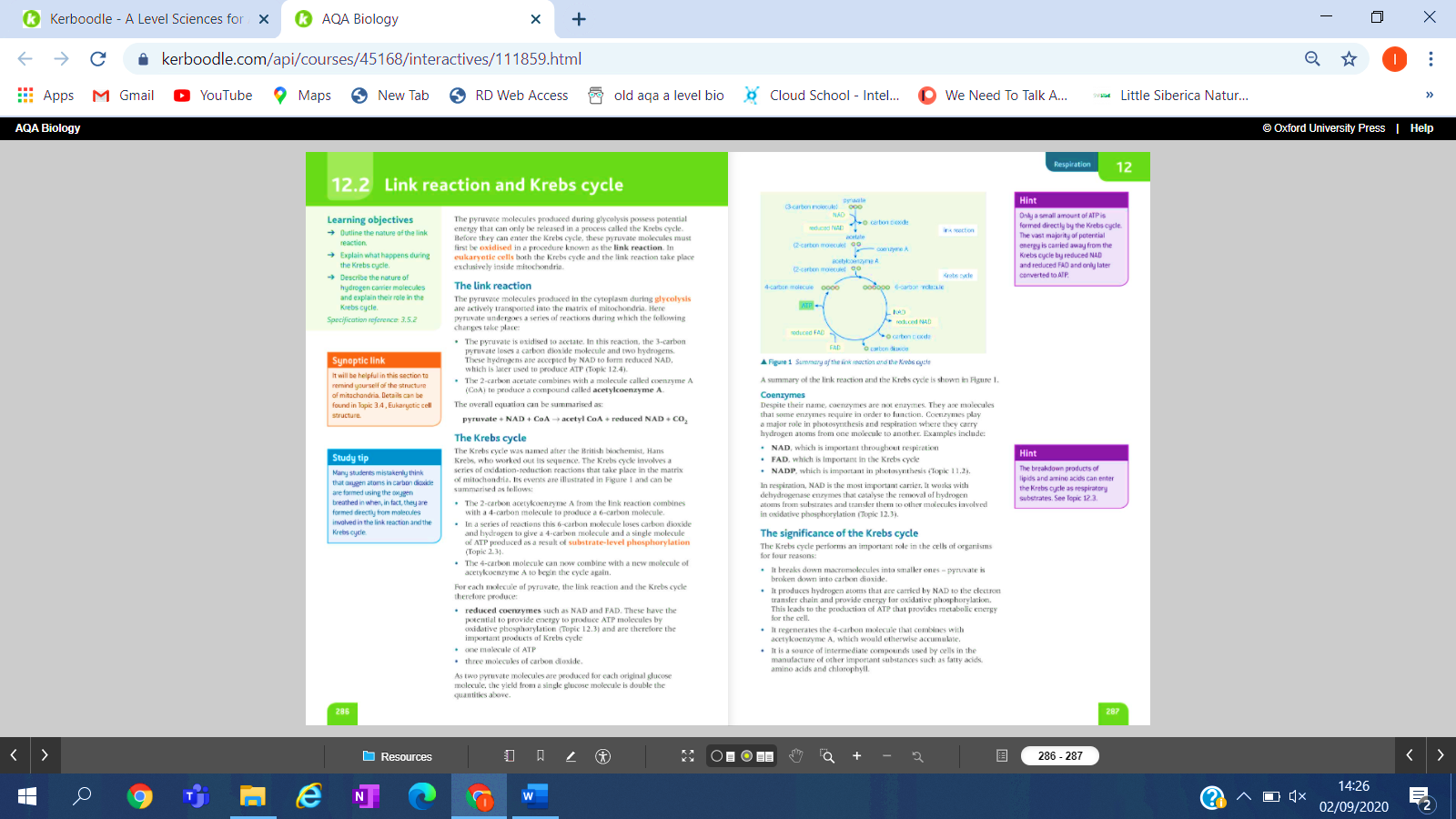
**Key vocabulary**

Aerobic respiration – requires oxygen and produces carbon dioxide, water and much ATP

Anaerobic respiration – takes place in the absence of oxygen and produces lactate in animals or ethanol and carbon dioxide in plants and fungi, but only a little ATP in both cases

Glycolysis – a process by which a hexose sugar, usually glucose, is split into two molecules of the 3-carbon molecule, pyruvate

**Key facts-**



**Possible homework tasks I Stretch & challenge (wider reading/independent work)**

H/W:including project, Kerboodle, Kahoot. Stretch: modelling tasks, Biological Science Review research.