

## CH1010      Tutorial 7

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Name:

1. Draw the **citric acid cycle** illustrating the **coenzymes**, **enzymes** and **substrate(s)** at each step.
  - Where does the acetyl coenzymeA and the oxaloacetate come from?
2. Explain the process of **regulation** of the TCA cycle.

3. **Pyruvate** which is a product of glycolysis may be converted into either acetyl-CoA or lactate.
- Under what conditions does acetyl-CoA or lactate form?
  - Why is there a choice of two possible products for pyruvate metabolism?

4. Draw a reaction scheme illustrating how **ATP** functions as a **carrier of energy**.
- Provide an example of how ATP is generated (ie a step in a reaction cycle).