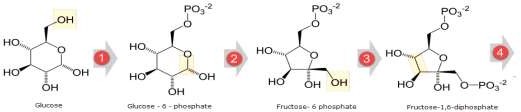
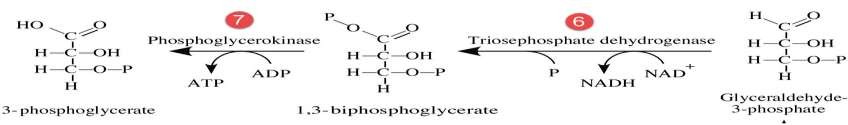
**Respiration introduction – IB style questions**



The diagram above shows the first steps of the process of glycolysis Use this diagram to answer to help you answer questions 1 & 2.

1. Which of the numbered steps shows a phosphorylation reaction?
   1. Step 1 only
   2. Step 2 and step 3
   3. Step 1 and step 4
   4. Step 1 and step 3
2. What is the best biological term to describe a chain of enzyme-controlled reactions?
   1. Catalysed reactions
   2. Metabolic pathway
   3. Enzyme metabolism
   4. Phosphorylation pathway

Questions 3 to 5 refer to the following steps of the same biological process.



1. Which of the molecules shown in the diagram **is reduced**?
   1. NAD+
   2. NADH
   3. Glyceraldehyde-3-phosphate
   4. ADP
2. Which of the molecules shown in the diagram is **oxydised**?
   1. NAD+
   2. NADH
   3. Glyceraldehyde-3-phosphate
   4. ADP
3. Which of the molecules shown in the diagram is **phosphorylated?**
   1. **ATP**
   2. NADH
   3. Glyceraldehyde-3-phosphate
   4. NAD+

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