

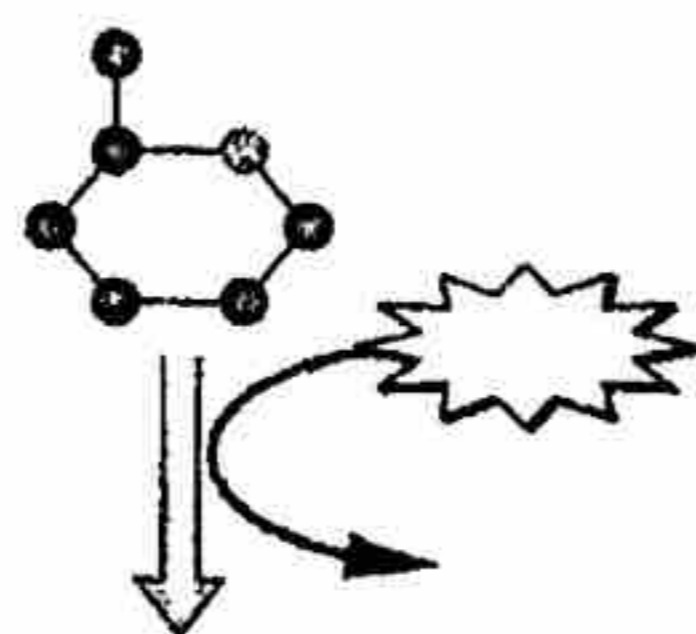
# Student Worksheet

## Glycolytic Pathway

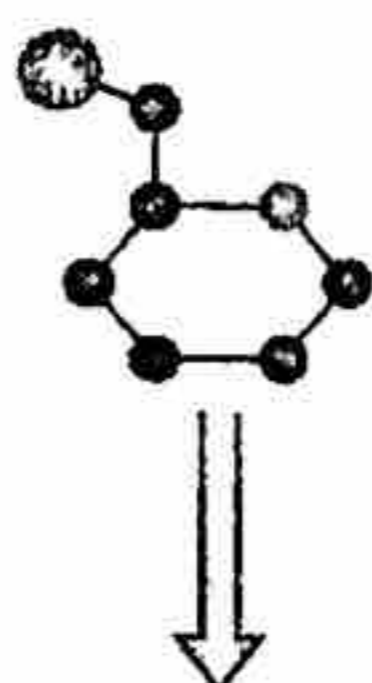
LSM 2.2-1

Fill in the blanks on the right side of the worksheet and in the steps of glycolysis. Also fill in the molecule names A to F.

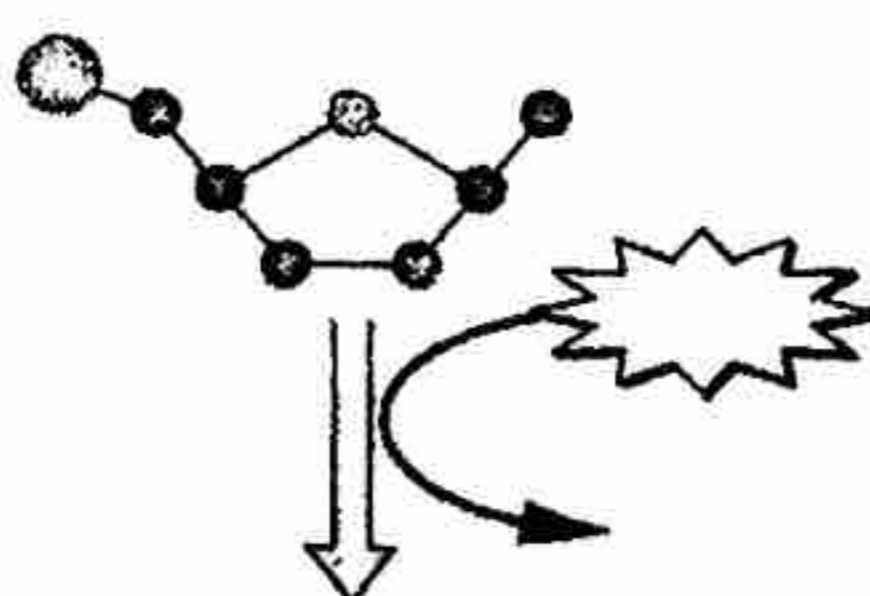
A.



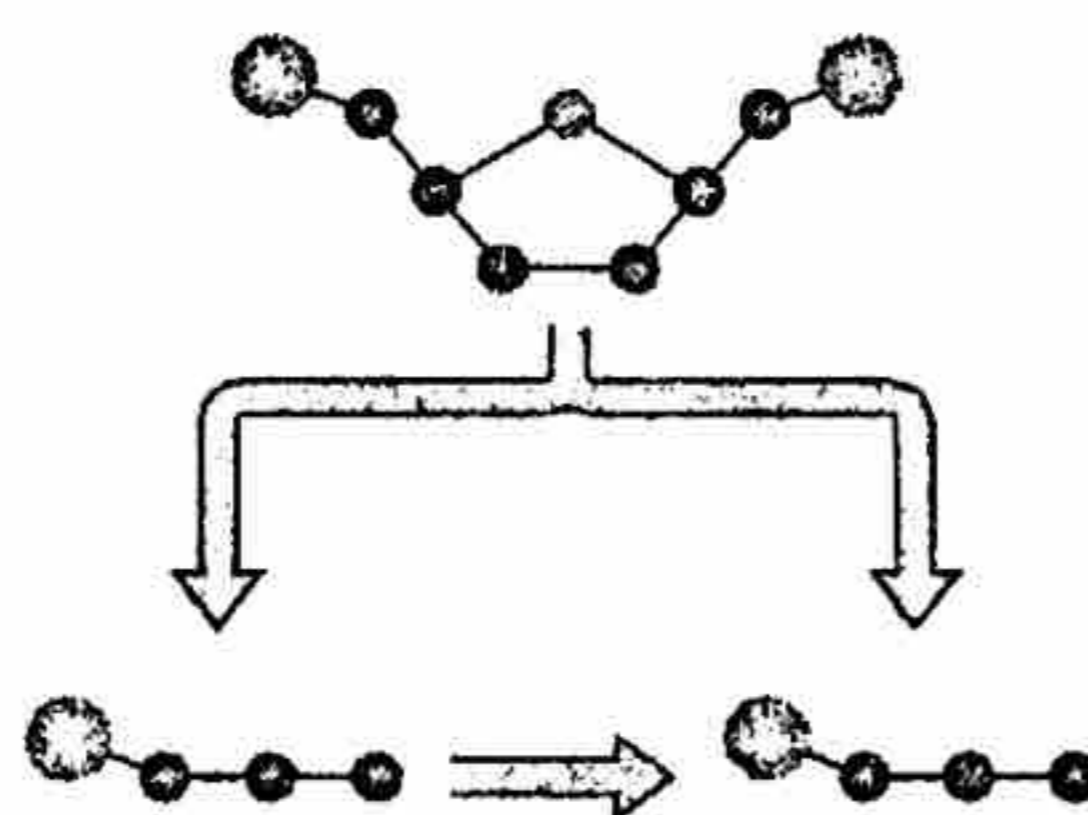
B.



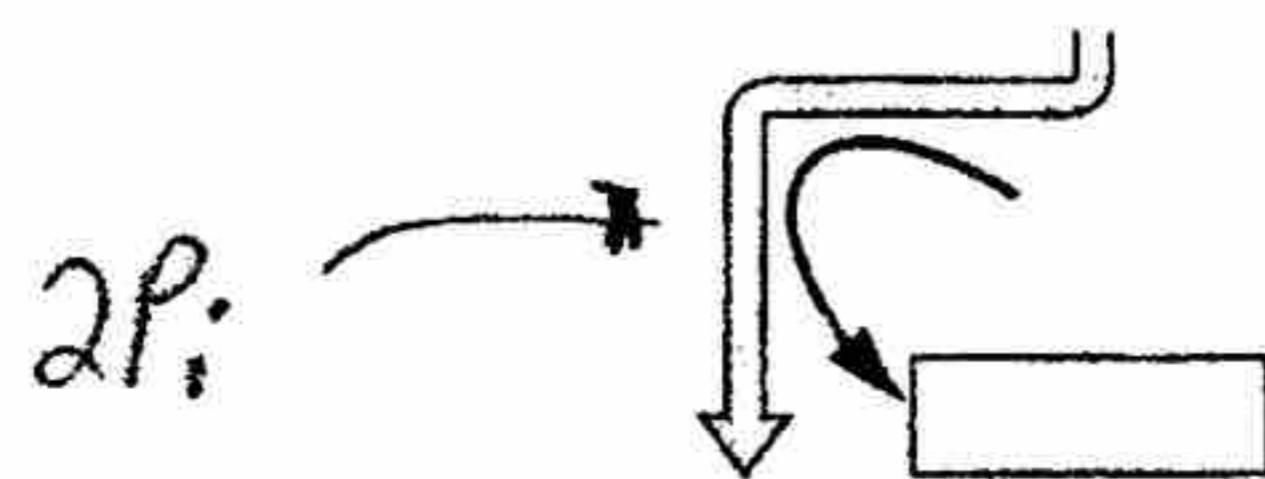
C.



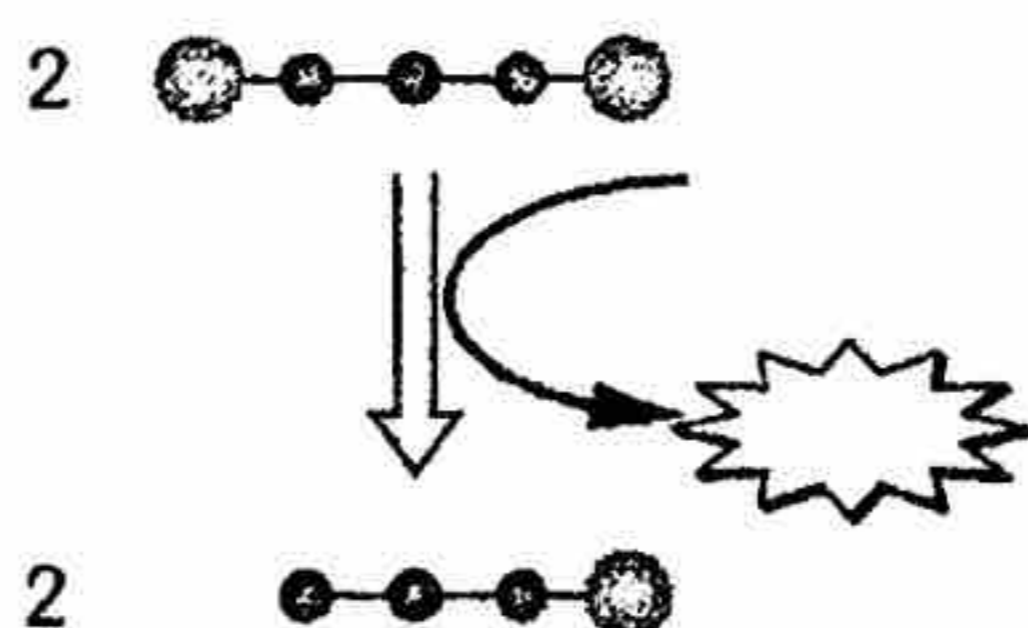
D.



E.

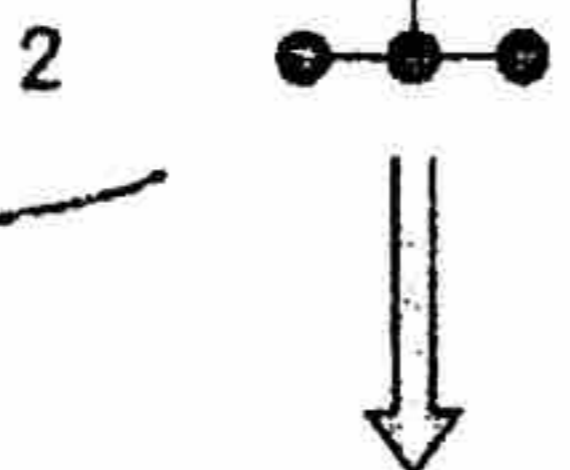


F.



G.

$2 H_2O$  ←



H.



I.



### 1. Glucose Activation

During the first four steps of glycolysis,

\_\_\_\_\_ are transferred to \_\_\_\_\_ via \_\_\_\_\_, where \_\_\_\_\_ is converted to \_\_\_\_\_. The end product is \_\_\_\_\_.

### 2. Sugar Splitting

\_\_\_\_\_ gets split into two \_\_\_\_\_ fragments, \_\_\_\_\_ and \_\_\_\_\_ then gets converted into \_\_\_\_\_.

### 3. Oxidation

Both molecules of \_\_\_\_\_ become oxidized using \_\_\_\_\_, which becomes \_\_\_\_\_. This process releases \_\_\_\_\_, which is used to attach \_\_\_\_\_ to the sugars, making them \_\_\_\_\_.

### 4. Formation of ATP

During the last four steps of glycolysis, the \_\_\_\_\_ groups of the molecules are transferred to \_\_\_\_\_, creating \_\_\_\_\_. This is done via the process of \_\_\_\_\_.

● carbon	⊙ oxygen	⊛ phosphate
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