Name: _____ Date: _____

Photo-Blue-Bottle (Sek. II/upper secondary level biology and chemistry)
A model experiment for the carbon cycle in animate nature

Analysis B

B1 Name the substances and cycles within the two figures below (fig. 1: model experiment; fig. 2: photosynthesis/cellular respiration)

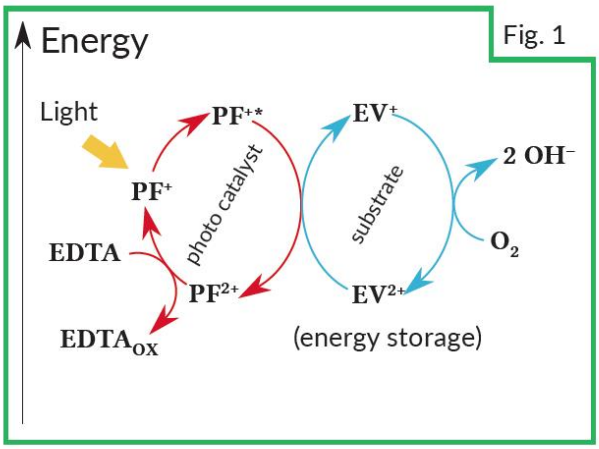

Fig. 1

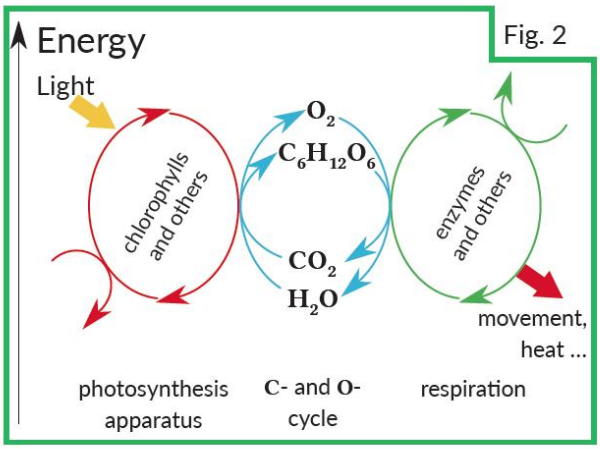

Fig. 2

B2 Name all forms of energy involved within the natural cycle of photosynthesis and cellular respiration. Then describe the conversion of energy during said processes.

B3 Explain the reasons why the PBB experiment constitutes a suitable model experiment for the natural cycle of photosynthesis and cellular respiration. Then point out its limits.

Additional assignment for biology classes

B4 There are different ways to model the natural cycle of photosynthesis and cellular respiration. One possible way is depicted in fig. 2. Based on your previous knowledge and the findings in B3, develop fig. 2 further.