

Topic 2 Molecular Biology

Questions to include in the nice notebook: Answer in sentences, keep reasonably short.

- What is the concept of vitalism?
- Explain the concept of metabolic pathways.
- What are the properties of water, and how are they relevant?
- How are polysaccharides different or similar to each other?
- Explain the structure of lipids.
- Explain the structure of proteins.
- How is BMI calculated and why?
- Explain the concept of protein conformation.
- What are some protein functions?
- How do enzymes work?
- How is lactose-free milk made?
- How is DNA copied?
- How are DNA and RNA similar and different?
- Explain transcription.
- Explain translation.
- What is the genetic code?
- What are the differences between aerobic and anaerobic respiration?
- Explain photosynthesis.
- What are absorption and action spectra?

Drawings to include in the nice notebook:

- Structural formulas of carbohydrates, lipids, aminoacids, dipeptides
- Enzyme activity curves
- Schematic drawing on how enzymes work (“Puzzle diagram”)
- Drawing of translation
- Drawing of transcription
- Block drawings of Photosynthesis
- Block drawings of Cell Respiration