

St. Francis High School

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# BIOTECHNOLOGY

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## Summer Assignments

REGISTER at this website  
(USE THE FOLLOWING INFORMATION)

[qwizcards.com/register](http://qwizcards.com/register)

**Username:** Use the beginning of your troubiemail address

Use your **troubiemail e-mail address**

Use the password - **Summer2020**

These assignments should take you about 2 weeks (but can be spread out over a long time).

- Read ALL the content on every page of the tutorials.
- DO ONLY the sections assigned **on THIS PAGE (Click each title)**.
  - **Know how to [HOW TO CHECK YOUR SCORES](#). (Click the link AND check your scores often.)**
- **HINT:** Do Not "Drag and Drop" on the questions that are like this. Simply click on the word or phrase you want to "drag" and then CLICK on the space where you want to "drop".
- **TO AID YOUR UNDERSTANDING:** Open the tutorial guides found at the top of the webpages and work ONLY on the sections which apply to your topics. This is NOT required, but it will greatly AID you in your understanding.
- The website will automatically have you redo any questions you miss until you get it correct -- this will raise your score.
- Email me if you have any questions or difficulties. [tstone@stfrancishs.org](mailto:tstone@stfrancishs.org)
- Open the links onto a new webpage so that you can come back quickly to this page.

## Chemistry of Life

- [Biochemistry 1: Monomers and Polymers; The Four Families of Biological Molecules \(Interactive Tutorial\)](#) -- scroll to the top of the page you land on. Read the 5 tutorials, do any interactive exercises on the page and take the quiz at the end.
- **Check your score(s)**

- [Biochemistry 4: Proteins \(Interactive Tutorial\)](#) - - You will land at the top Read and learn from all parts of this page. Do any interactive exercises on the page and take any quizzes you find on this page.
- **Check your scores**

- [Nucleic Acids](#) - You will land at the top Read and learn from all parts of this page. Take the quiz at the end.
- **Check your scores**

## Cellular Energetics

- [Enzymes Tutorial 1](#) (Enzyme Structure and Function) - You will land at the top Read and learn from all parts of this page. Do any interactive exercises on the page and take any quizzes you find on this page.
- [Enzymes Tutorial 2](#) (Enzyme Inhibition and Regulation) - You will land at the top Read and learn from all parts of this page. Do any interactive exercises on the page and take any quizzes you find on this page.
- **Check your scores**

**SEE NEXT PAGE**

## Gene Expression and Regulation

- [DNA: An Overview](#) - read and learn from the Tutorial, take the quiz at the end. COME BACK TO THIS PAGE, click the next page.
- [DNA Structure](#) - read and learn from the Tutorial, interact with all exercises and take the any quizzes.
- **DO NOT BEGIN the next link until it is a new day and you have a fresh mind. Check your scores and be sure you have completed everything up to this point.**
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- [DNA Replication](#) - read and learn from the Tutorial, interact with all exercises and take the any quizzes.
- **Some of the previous page was NEW material for you AND we will be learning these details in Biotechnology. Redo this page to learn it better. Check your scores.**
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- [Transcription](#) - read and learn from the Tutorial, interact with all exercises and take the any quizzes.
- [The Genetic Code](#) - read and learn from the Tutorial, interact with all exercises and take the any quizzes.
- [Translation/Protein Synthesis](#) - read and learn from the Tutorial, interact with all exercises and take the any quizzes.
- [Protein Targeting to the Rough ER](#) - read and learn from the Tutorial, interact with all exercises and take the any quizzes.

**Check your scores. Everything should be completed. If you have at least 90% of the points for the quizzes, you are done. Redo any with less than 90% of the points.**

**Completion of these tutorials with a 90% minimum completion rate is your first grade in Biotechnology. Well done!**