

Title: Translation

Subject: SBI 4U (Grade 12 University Biology)

Time: 75 min

Lesson Description: To teach students the process of translation, how proteins are created from a strand of mRNA and a ribosome.

Learning Goal: For students to be able to explain and outline the steps involved in translation, highlighting the key components, and to be able identify the purpose of this process.

Materials:

- worksheets downloaded from site
- computers or tablets
- markers
- poster paper

Minds On:

- Watch the YouTube provided on the website. (5 minutes)
- Discuss the significance of the central dogma of molecular biology and explain the DNA codes for proteins and how mRNA carries the information to the ribosomes. (5 minutes)

Action:

- Have students complete worksheets using the online tutorial. (30 minutes)
- Take up the worksheets as a class. (20 minutes)

Consolidation:

- Have students outline the process of translation on poster paper individually or in groups. (15 minutes)