

SI #12 LIFE 1010-01

1) What are the key reasons for sexual reproduction?

2) What phase in meiosis can crossing over occur?

3) In each of the boxes below, draw what a cell might look like during each phase of meiosis I. $2n=4$

Prophase 1	Late prophase 1	Metaphase 1
Anaphase 1	Telophase 1	

4) What does meiosis 2 look similar too?

5) What happens when crossing over occurs?

6) What does nondisjunction refer to?

Unit Review Part 1

1) Fill in the table below

Process	Starting Molecule	Molecule Produced	Purpose
DNA Replication			
Transcription			
Translation			

2) List the replisome enzyme in chronological order and describe their function. We will draw a diagram together of everything.

3) List the steps of transcription below. We will draw this diagram together

4) List the steps of translation. We will draw this diagram together.

5) Below is a DNA Template strand. Create a molecule of RNA using this template strand then use a codon table to find the amino acid sequence.

3' CCTACTTTGCAATGATC 5'

What questions do you have for me?