

Assignment on Genetics

You will be participating in the HHMI-NMSU Mobile Molecular Biology Lab. Prior to participation in the lab activities you should have a basic background on some of these topics. The assignments below are meant to introduce you to the relevant information.

Part One:

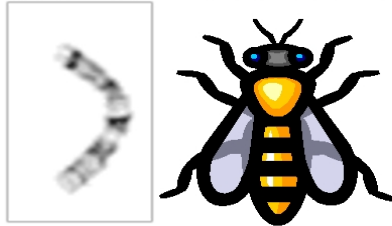
Complete the web-based reading assignment given below, then answer questions 1-11.

Genetic Science Learning Center, Tour of the Basics
(Take the Full Tour of ALL SIX Topics!)
<http://learn.genetics.utah.edu/units/basics/tour/>

Genetic Science Learning Center, Build a DNA Molecule
(Be sure to actually build the molecule!)
<http://learn.genetics.utah.edu/units/basics/builddna/>

1. How many chromosomes are in each cell of your body?
2. If we look at one specific chromosome, say chromosome #7 (see the picture below), how many copies of chromosome 7 are in every cell of your body?

Here is a picture of chromosome 7
(see how it has stripes, it looks a little bit like a bumble bee):



3. What is the name (both the abbreviation and the full name) of the informational molecule that is found in chromosomes?

Abbreviation:

Full name: