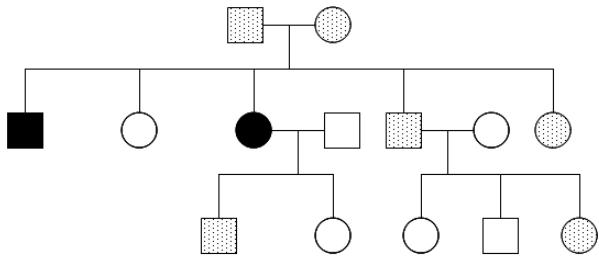


Name _____

Period _____

Pedigree Practice



■ ● PKU heterozygote (carrier)
■ ● PKU homozygote

<http://learn.genetics.utah.edu/content/addiction/genetics/pi.html>

Push Play on the screen and start the webquest

A Pedigree of a family that struggles with nicotine addiction is shown on the screen. You must go through this pedigree until all of the family members are shown and you have selected all of the right responses.

1 Click next and then click on the WHAT IS It? Tab and tell me what a pedigree is and what it may be used for?

2- Click next until you get to slide 5 and 6. Explain what risk factors are and why you think they may be included in the pedigree?

3- Click done and then click on what do the symbols mean. Make sure you know what symbols stand for what!! You can always click on the symbols during the webquest.

4- You will start with wally. You will need to listen closely to his short video clip to know what symbol to insert for him. Once his clip is done pick a symbol for WALLY and you are on your way. Draw wally's symbol below .

5. Keep clicking next until you are completely done with the pedigree

6- Give the symbols for the following people once you are done

II 2, 5, 7, 8

III 2, 3, 6, 7, 9

Next, go to this website

http://www.mhhe.com/biosci/genbio/virtual_labs_2K8/labs/BL_05/index.html

If you can answer these questions correctly, you are MASTER GENETIST and will be prepared for the exam.

Follow the instructions on the left hand side of the screen closely. After clicking on the notebook, do at least 3 different Punnett square scenarios. (To get a different scenario after you have completed one, click the reset button). Write your results below.

Scenario #: _____

Parent Genotypes: _____ x _____

Offspring Genotypes: _____, _____, _____, _____

Scenario #: _____

Parent Genotypes: _____ x _____

Offspring Genotypes: _____, _____, _____, _____

Scenario #: _____

Parent Genotypes: _____ x _____

Offspring Genotypes: _____, _____, _____, _____