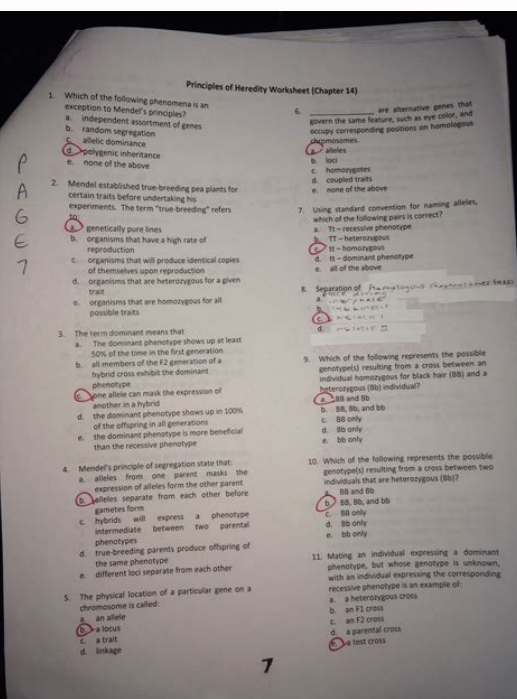
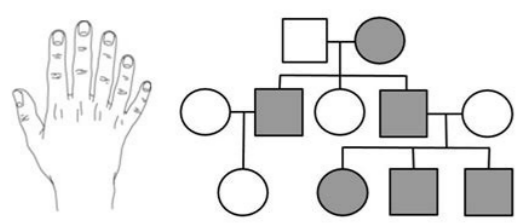


I'm not robot!

3. A trait is genetically determined by a condition where a person has extra fingers or toes. The allele that causes this trait is dominant. A person with DD will have extra digits. Fill out the pedigree of the family where polydactyly has been observed.



BREAKING THE CODE

TRANSCRIPTION

1. For the DNA sequence below, write the sequence of the complementary strand of DNA that will result after replication.
DNA #1: **TACCGATGCCAGATCAAATC**
DNA #2: _____

2. Transcribe mRNA using DNA #2 in the problem above. Mark codons appropriately.
mRNA: _____

3. Transcribe mRNA from the DNA strand complementary to the strand below. Mark codons appropriately.
DNA #1: **ATGTTTCATAGGGCATAGAGTAG**
mRNA: _____

4. Determine the DNA sequence used to transcribe the mRNA below.
mRNA: **AUGGUUUUCGAGAUUGGAAUUGA**
DNA: _____

TRANSLATION

5. Use the mRNA strand below and the genetic code chart on the back of this worksheet to determine the amino acid sequence it codes for. Abbreviations are acceptable.
mRNA: **AUGGUUUUCGAGAUUGGAAUUGA**
A.A. Sequence: _____

6. Determine the anticodon sequence used to create amino acid chain in the above problem.
Anticodons (tRNA): _____

7. Determine the amino acid sequence coded for by DNA strand below.
DNA #1: **TACCGATGCCAGATCAAAAATT**
A.A. Sequence: _____

8. What DNA sequence could have coded for the amino acid chain below?
A.A. Sequence: Met - Ala - Thr - Leu - Tyr - Lys - Val - Arg - STOP
DNA: _____

BREAKING THE CODE

TRANSCRIPTION

1. For the DNA sequence below, write the sequence of the complementary strand of DNA that will result after replication.
DNA #1: **TACCGATGCCAGATCAAATC**
DNA #2: _____

2. Transcribe mRNA using DNA #1 in the problem above. Mark codons appropriately.
mRNA: _____

3. Transcribe mRNA from the DNA strand complementary to the strand below. Mark codons appropriately.
DNA #1: **ATGTTTCATAGGGCATAGAGTAG**
mRNA: _____

4. Determine the DNA sequence used to transcribe the mRNA below.
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TRANSLATION

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DNA #1: **TACCGATGCCAGATCAAAAATT**
A.A. Sequence: _____

8. What DNA sequence could have coded for the amino acid chain below?
A.A. Sequence: Met - Ala - Thr - Leu - Tyr - Lys - Val - Arg - STOP
DNA: _____

HARRY POTTER GENETICS - PART 2

Use your knowledge of genetics to answer each question.

1. Use the information for Wizard traits in the table below to help you write the phenotype for each genotype provided.

Trait	Dominant	Recessive
Hair color	Black (H)	Red (h)
Eye color	Brown (B)	Blue (b)
Magical Ability	Muggle (M)	Wizard (m)
Freckles	Freckles (F)	freckleless (f)

- a. hh red hair
- b. Mm muggle
- c. FF freckles
- d. Bb brown eyes
- e. mm wizard
- f. HH black hair
- g. bb blue eyes
- h. Ff freckles

2. Use the information in the table above to write the genotype(s) for each phenotype below.



- a. Wizard mm
- b. Black hair HH or Hh
- c. Freckleless ff
- d. Muggle MM or Mm
- e. Brown eyes BB or Bb
- f. Red hair hh
- g. Freckles FF or Ff
- h. Blue eyes bb

3. Determine the genotype for each using the information in the table above.

- a. Homozygous brown eyes BB
- b. Heterozygous muggle Mm
- c. Hybrid black hair Hh
- d. Purebred freckleless ff

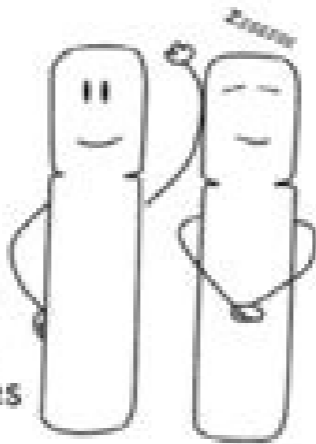
4. Harry Potter's parents were murdered when Harry was only a year old. But those that knew Harry's parents always told him that he had "James's dark hair and Lily's green eyes." Use your understanding of genetics to answer the questions below.



Genes and Chromosomes

In this lesson you should learn and be able to:

- Define the terms 'Gene' and 'Chromosome'
- Identify where chromosomes are found in the body
- Describe the basic structure and features of a chromosome
- Investigate the human Karyotype
- Diagnose conditions associated with chromosome abnormalities



Refer to the PowerPoint on this topic to answer the following questions:

1. What is a gene?

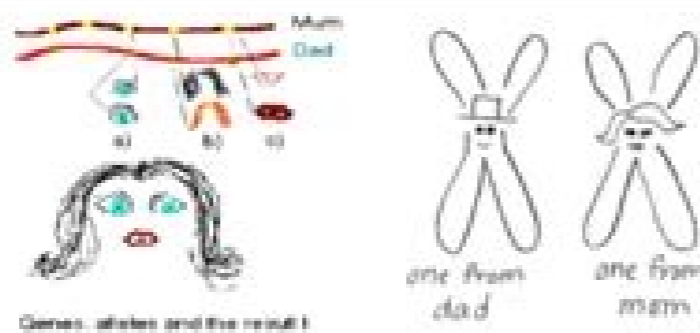
2. What are genes made of and what do they do?

3. Every person has two copies of each gene,

one inherited from each parent.

These two, almost identical genes

are called _____.



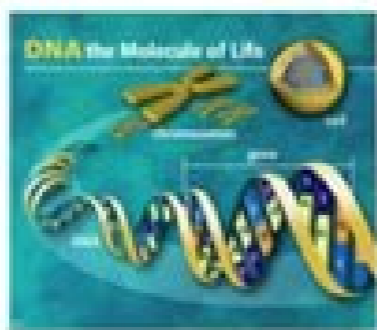
4. _____ are forms of the same gene with small differences in their sequence of DNA bases because they come from two different people – your parents.

5. The physical appearance of an organism, the organisms traits such as size, shape, colour or behaviour is called a _____.

6. What is a genotype?



7. _____ type describes the physical characteristics that we can see when we look at an organism, _____ type is hidden inside the cells, inside the cells' nucleus, and can only be seen with a microscope.



Non mendelian genetics practice worksheet. Genetics practice worksheet #3 answers. Simple genetics practice worksheet answer key. Mendelian genetics practice worksheet answer key. Mendelian genetics practice worksheet answers. Genetics practice worksheet answer key. Genetics practice worksheet #3. Mendelian genetics practice worksheet.

Thank you for your participation! Name: _____ 1. For each genotype, indicate whether it is heterozygous (HE) or homozygous (HO) AA _____ Bb _____ Cc _____ Dd _____ Ee _____ ff _____ GG _____ HH _____ Ii _____ Jj _____ Kk _____ Ll _____ Mm _____ nn _____ Oo _____ Pp _____ 2. For each of the genotypes below, determine the phenotype. Purple flowers are dominant to white. Pp _____ pp _____ Brown eyes are dominant to blue eyes. BB _____ Bb _____ bb _____ Round seeds are dominant to wrinkled. RR _____ rr _____ 3. For each phenotype, list the genotypes. (Remember to use the letter of the dominant trait) Straight hair is dominant to curly. _____ Rr x Rr What percentage of the offspring will be round? _____ RR x Rr What percentage of the offspring will be round? _____ Practice with Crosses. Show all work! 5. A TT (tall) plant is crossed with a tt (short plant). What percentage of the offspring will be tall? _____ 6. A Tt plant is crossed with a Tt plant. What percentage of the offspring will be short? _____ 7. A heterozygous round seeded plant (Rr) is crossed with a homozygous round seeded plant (RR). What percentage of the offspring will be homozygous (RR)? _____ 8. A homozygous round seeded plant is crossed with a homozygous wrinkled seeded plant. What are the genotypes of the parents? _____ x _____ What percentage of the offspring will also be homozygous? _____ What is the genotype of all of the offspring? _____ 9. In pea plants purple flowers are dominant to white flowers. If two white flowered plants are cross, what percentage of their offspring will be white flowered? _____ 10. A white flowered plant is crossed with a plant that is heterozygous for the trait. What percentage of the offspring will have purple flowers? _____ 11. Two plants, both heterozygous for the gene that controls flower color are crossed. What percentage of their offspring will have purple flowers? _____ What percentage will have white flowers? _____ 12. In guinea pigs, the allele for short hair is dominant. What genotype would a heterozygous short haired guinea pig have? _____ What genotype would a purebreeding short haired guinea pig have? _____ What genotype would a long haired guinea pig have? _____ Show the cross for two heterozygous guinea pigs. What percentage of the offspring will have short hair? _____ What percentage of the offspring will have long hair? _____ Shannan Muskopf April 10, 2017 Students learning basic Mendelian genetics can practice assigning genotypes and identifying heterozygous and homozygous configurations. Squares are set up to do crosses with purple and white flowers as seen in Mendel's pea plants. The worksheet is very simple, designed for beginning students of biology and genetics. More difficult versions of genetics practice problems might include problems with codominance and sex-linkage. The worksheet starts with simple problems and includes a Punnett square framework and then adds more difficult problems where students must set up the squares on their own. Honors classes might even learn how to do dihybrid problems, but those problems are time intensive. Dihybrid crosses are also not usually included in science standardized tests. Model organisms are included as problem sets, such as pea plants and guinea pigs. There are two pages of practice problems, though I will sometimes only assign the first page. The second page is a little more difficult than the first one. In 2021, I added a remote version of this worksheet where students can complete the squares using Google slides using Chromebooks. The key to this document is located at TpT. HS-LS-3-3 Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population. Grade Level: 7-12Time Required: 15-25 min Thank you for your participation!

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