

## 1. Define the following:

<b>Genotype</b>	The combination of alleles that an organism has for a trait
<b>Phenotype</b>	The physical trait/expression of an organisms genotype
<b>Dominant (allele)</b>	Allele that will be expressed as long as there is at least one copy
<b>Recessive (allele)</b>	Allele that will only be expressed if no dominant alleles are present
<b>Codominant (allele)</b>	Alleles that will both influence phenotype if present in an individual
<b>Carrier</b>	An individual with a recessive allele who does not express it

## 2. The allele for tall plants (T) is dominant over the allele for dwarf plants (t). State the possible genotypes and phenotypes of a plant for this trait:

Genotype	Phenotype
TT	tall
Tt	tall
tt	dwarf

## 3. Mendel is known as the father of genetics for his extensive experimental work with peas and different types of crosses. In a classic example of Mendel's work, he determined that the gene for pea color had two alleles. The allele for yellow color was dominant (Y) and the allele for green color (y) is recessive. Draw a Punnett square to cross two heterozygous yellow peas and determine the predicted genotype and phenotype ratios of the possible offspring:

	Y	y
Y	YY	Yy
y	Yy	yy

Genotype ratio: 1:2:1 (YY:Yy:yy)

Phenotype ratio: 3:1 (Yellow:Green)

## 4. Human ABO blood types follow a codominant inheritance pattern.

## a. How is the ABO blood group gene an example of 'multiple alleles'?

There are three alleles ( $I^A$ ,  $I^B$ ,  $i$ ) instead of the normal 2.

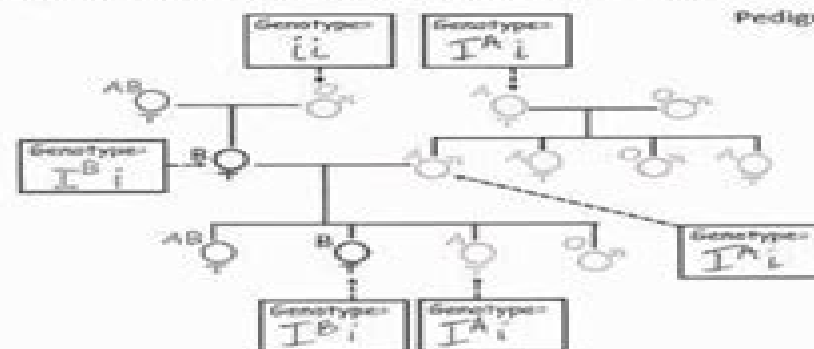
## b. Complete the table below to show how blood type is inherited.

alleles	i	$I^A$	$I^B$
i	ii (Type O)	$I^A i$ (A)	$I^B i$ (B)
$I^A$	$I^A i$ (A)	$I^A I^A$ (Type A)	$I^A I^B$ (AB)
$I^B$	$I^B i$ (B)	$I^A I^B$ (AB)	$I^B I^B$ (B)

Codominance

## c. Highlight the genotype and phenotype which is an example of codominance. — AB

## d. Complete this pedigree chart to show the inheritance of blood types in this family.



antigen



# Biology Guide Answer Key 13

**Thorpe-Bowker Staff**



### **Biology Guide Answer Key 13:**

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**Student Guide for Cycles of Life** Gerarld L. Kellogg, 2006 **From Mandate to Achievement** Elaine Makas, 2009-09-14 This engaging book will guide your journey through the morass of curriculum alignment development and assessment Our school struggled through missteps in curriculum alignment and implementing common assessments without the benefit of Makas wisdom and experience I highly recommend this book for teachers administrators and interested parents Robert A Martin Leadership Consultant Oakland Schools Waterford MI Raise schoolwide performance with a systematic teacher driven approach to curriculum development Purposeful curriculum design is essential to attaining consistent academic improvement Educators often find however that a viable curriculum based on mandated standards can be exceedingly challenging to create implement and sustain In this book curriculum consultant Elaine Makas provides a step by step guide to establishing the processes and documents necessary to build a stable cohesive curriculum system that aligns to educational benchmarks Based on the DAILY model Data Alignment Instructional Pace Guides Local Common Assessment and Yearly Review this system deconstructs the curriculum process into sequential steps that facilitate the development of instructional priorities reveal students in need of intervention and help ensure continuous process improvement With numerous templates samples and reflective exercises this book clearly demonstrates how to Collect and analyze data identify expectations and recognize

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