

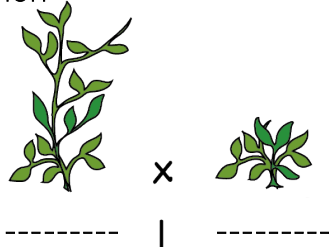
Name: _____ Period: _____

5.3 PART 2: MENDEL'S LAWS OF INHERITANCE

Note: the presentation for this is available under the daily agenda for Wed Feb 22 or Thurs Feb 23!

MENDEL'S EXPERIMENTS

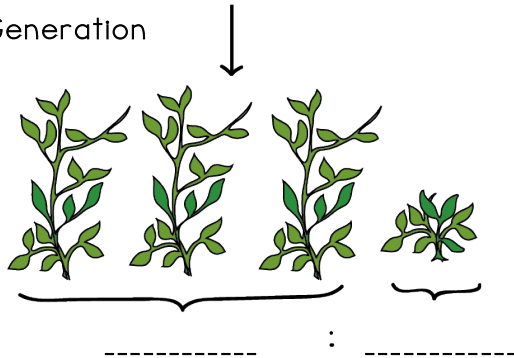
P Generation



F1 Generation



F2 Generation



Mendel's Actual Numbers:

----- Tall : ----- Short

(Ratio = ----- : -----)

Punnett Square:

MENDEL'S LAWS

PREVIOUSLY LEARNED:

LAW OF HEREDITY:

Offspring receive genetic information from parent organisms

LAW OF DOMINANCE & RECESSIVENESS:

Some traits are dominant over other traits; traits that are masked by dominant traits are called recessive

LAW OF SEGREGATION OF ALLELES

MENDEL'S EXPERIMENTS

P Generation

Pure-breeding
Yellow/Round



RRYY

X

Pure-breeding
Green/Wrinkled



rryy



F1 Generation



Hybrid
Yellow/Round

RrYy



F2 Generation



Punnett Square:

	RY	rY	Ry	ry
RY	RRYY	RrYY	RRYy	RrYy
rY	RrYY	rrYY	RrYy	rrYy
Ry	RRYy	RrYy	RRyy	Rryy
ry	RrYy	rrYy	Rryy	rryy

MENDEL'S LAWS

LAW OF INDEPENDENT ASSORTMENT