

Semester Review Study Guide Fall

Name _____

Tools of Science (Draw and explain what they are used for)

Microscope	
Graduated cylinder	
Metric ruler	
Triple Beam Balance	
Beaker	

Cell Biology

Cell wall	
Ribosome	
Chloroplasts	
Vacuole	
Mitochondria	
Nucleus	
DNA	
Mitosis	
Meiosis	

Draw DNA:

Draw a chromosome:

Identify the parts of the cell from the drawings of the plant and animal cells.

Genetics

Heredity	
Phenotype	
Genotype	
Alleles	
Genes	
Dominant trait	
Recessive trait	

4. Set up the Punnett Squares for each of the crosses listed below.

Round seeds are dominant to wrinkled seeds.

MAKE A KEY → $R =$ _____ $r =$ _____

Rr x rr

How many of the offspring will be round? _____

How many of the offspring will be wrinkled? _____

How many of the offspring heterozygous? _____

RR x rr

How many of the offspring will be round? _____

How many of the offspring will be wrinkled? _____

How many of the offspring homozygous dominant? _____

RR x Rr

How many of the offspring will be round? _____

How many of the offspring will be wrinkled? _____

How many of the offspring purebred? _____

Rr x Rr

How many of the offspring will be round? _____

How many of the offspring will be wrinkled? _____

How many of the offspring homozygous recessive? _____