Heredity Packet Reading Guide Heredity 1: What are inherited characteristics? What do you look like? 1. Describe your appearance?	Name:
A. <u>Traits</u>	
Whom do you look like? 1. Which parent do you resemble the most?	
A. <u>Inherited Traits</u>	
Heredity A. Who was Gregor Mendel?	

B. <u>Genetics</u>

C. <u>Heredity</u>

Finding Out More A. Why is it difficult to study human genetics? B. What type of plants and animals do scientists use when studying genetics? Heredity 2: Why are chromosomes important? The Thread of Life 1. Where do we find the chromosomes? **Chromosomes and Reproduction** 1. In asexual reproduction, where does the daughter cell get its chromosomes from? 2. In sexual reproduction, where does the offspring get its chromosomes from? **Chromosomes and Genes** A. Genes

1. Where are genes located?

People In Science

1. Who is Francisco Ayala

Names

Heredity 4: Why can offspring look different from their parents? Parents and Children do not look exactly alike.

1. What are hidden traits?

T is for tall

1. How many genes do we have for each trait?

It's a tall story

1. What genes does a pure tall pea plant have?

Forever short

1. What genes does a short pea plant always have?

Another way to get tall

1. What genes does a hybrid tall pea plant have?

A. <u>Hybrids</u>

Who is hiding?

A. Dominant Gene

B. Recessive Gene

Finding Out More

A. Mutations

Heredity 5: How are genes combined in offspring? It takes two to make a trait

1. What kind of symbol is used to represent a dominant gene?

Pure traits and hybrid traits

1. What kind of genes produce hybrid traits?

Predicting traits

1. When two parents have pure traits of different kinds, what trait will their offspring have?

Combining hybrids

1. What are the three kinds of traits that the offspring of hybrid parents can have?

Finding Out More

1. Can traits be controlled by more than one pair of genes? Explain.

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Heredity 6: Can traits be blended?

An eye of a different color

1. What color eyes do you have?

A. <u>Blending</u>

Studying Blending

1. What is the color of hybrid of black chickens and white chickens?

Are blended genes lost?

1. When hybrids with a blended trait are mated, how many different kinds of offspring are produced?

Finding Out More

A. *Melanin*

Heredity 9: Can the environment affect inherited traits? Can genes do it all?

1. What affects the traits of living things besides genes?

Conditions in the environment

1. What may happen when the environment is not right?

Can the environment change the genes?

1. What may happen to a trait when the environment changes?

Back to normal

1. What do living things need to develop normally?

Finding Out More

1. Why, when the scientist cut the tail off of mice, did the offspring of these mice still have tails?

People in Science

1. Agnes N. Stroud-Lee