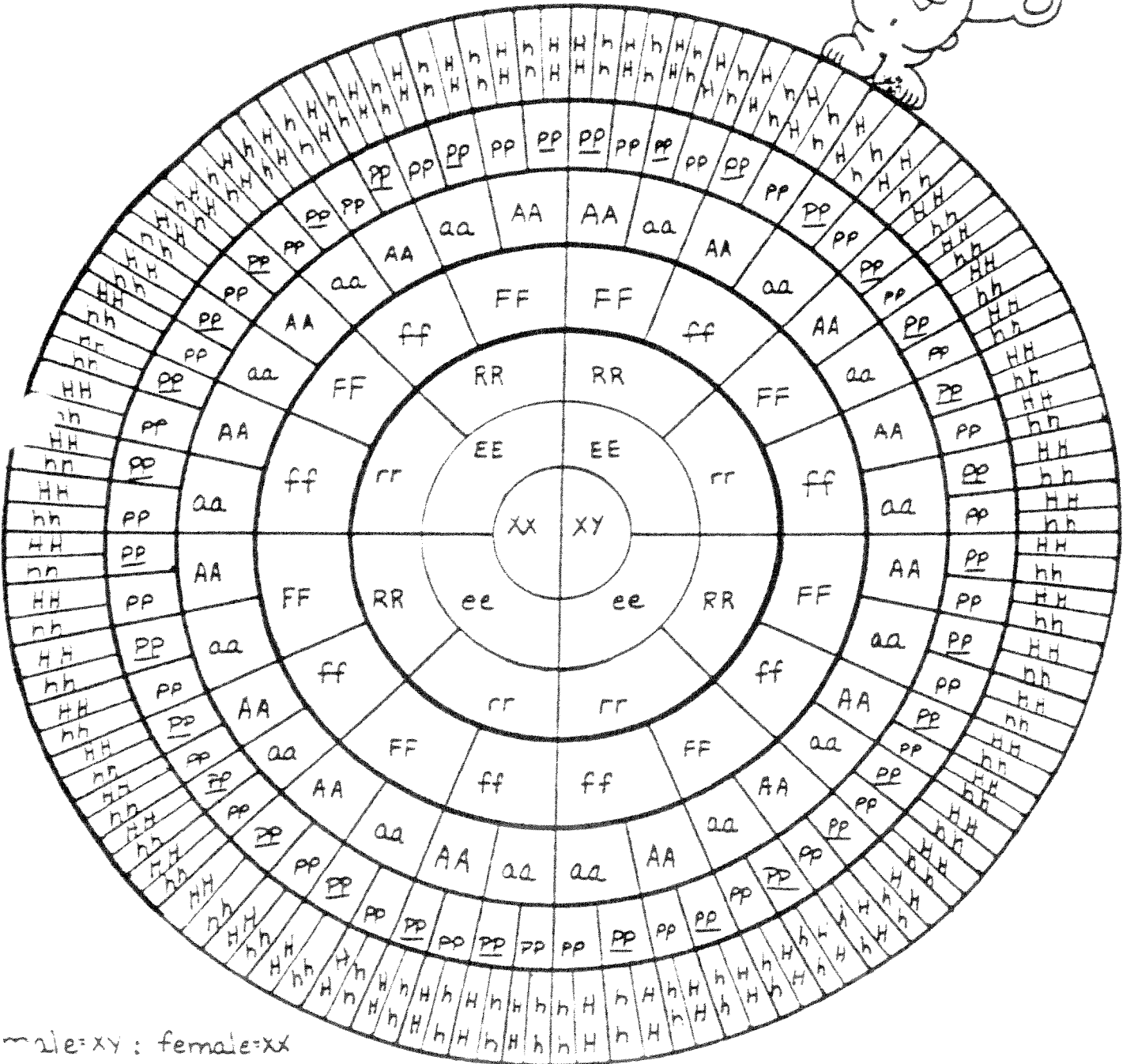
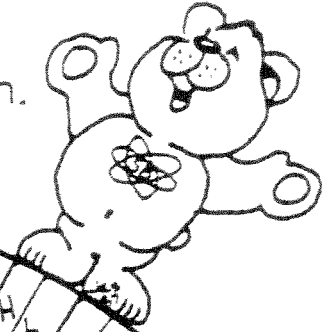


Geneticist: _____ PERIOD _____

My Traits

DATE _____

Determine your own traits. Color them in.



male=xy : female=xx

own eyes=EE: not brown eyes=ee

tongue roller=RR: not tongue roller=rr

tongue flipper=FF: not tongue flipper=ff

e. attached ear lobe=AA: not attached=aa

f. widows peak=PP : not widows peak=pp

g. curly hair=HH : not curly hair=hh

Name _____ Date _____ Per _____

INHERITED CHARACTERISTICS

Characteristic	Student				CLASS %	Family	
	You	(2)	(3)	(4)		(1)	(2)
Hand-folding, thumb position (1) Left over right (2) Right over left							
Earlobes (3) Attached (4) Free							
Hairline (5) Pointed hairline (6) Straight hairline							
Tongue-rolling (7) Can roll (8) Can't roll							
Digit next to little finger (9) Hair (10) No hair							
Toe next to big toe (11) Same length or longer than big toe (12) Shorter than big toe							

Of the above 6 characteristics I compared with my family members, I

have _____ of the 6 the same as my _____.

(How many?) (relative)

LAB 28

Chapter 14

Genetic Traits

Have you ever been told you look like your parents? Parents pass genes that determine physical features to their children. These physical features are called genetic traits. Children receive half of their genes from each parent.

OBJECTIVES

In this experiment, you will

- examine some of your genetic traits.
- examine your parents for the same genetic traits, and
- compare how similar or different you and your parents are.

EQUIPMENT

- pencil

PROCEDURE

1. Work with a partner during this activity. Complete the column marked "You" in Table 28-1 in the Data and Observations section for each of the genetic traits listed. Ask your partner to help you describe the

traits you cannot see. Refer to Figure 28-1 for an explanation of traits you may not be familiar with.

2. Take the table home and complete it for each of your parents.

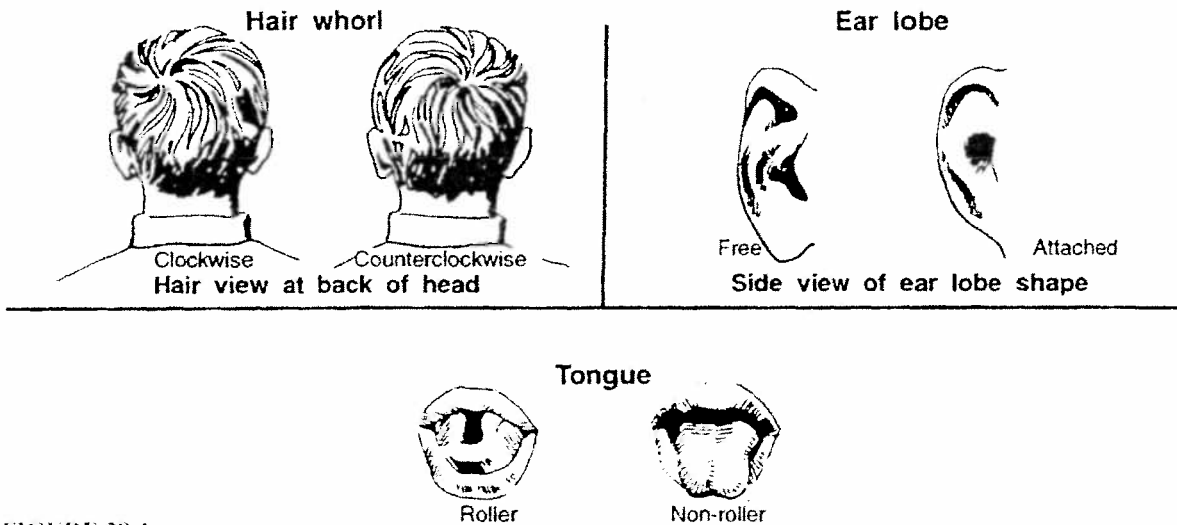


FIGURE 28-1

Edges of tongue can or cannot be rolled up.

DATA AND OBSERVATIONS

TABLE 28-1

Trait	Description	You	Father	Mother
Handedness	Left or right			
Sight	Nearsighted, farsighted, or normal			
Eye color	Blue or not blue			
Dimples	Yes or no			
Freckles	Present or absent			
Hair whorl*	Clockwise or counterclockwise			
Ear lobe*	Free or attached			
Tongue*	Roller or nonroller			

*See Figure 28-1.

CONCLUSIONS

- How many traits do you and your mother share? _____
You and your father? _____
- How many traits do you share with both parents? _____
- List all traits that you show but are not shown by either parent. _____
- How might it be possible to show a trait when both parents do not show it? _____

- What proof do you have that all of your genes did not come from only one parent?

GOING FURTHER

Go back through the list you made in the Conclusions section. Are there traits on the list that you share with a grandparent but not a parent? How can a trait skip a generation?

DISCOVER

Groups of people living next to one another tend to share more genetic traits than groups living far apart. Can you find two reasons why this is so?