

# Intermediate Science 9

## Unit 4: REPRODUCTION

### WORKSHEET 1: HEREDITY AND TRAITS

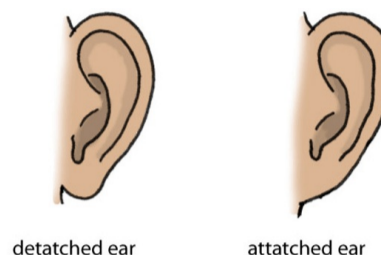


**Heredity** The process through which patterns of traits are passed on from an individual to its offspring.

**Trait:** a particular feature that can vary in size or form from individual to individual within a species.

Example of Traits:

- hair colour
- eye colour
- freckles or no freckles
- Rolling your tongue
- Right Hand and Left Hand
- Normal or colour blindness



Traits are observable characteristics we inherit from our parents. Some traits are common in a population (our class) while others are not. And, every person has a different overall combination of traits that makes them unique.

#### An Inventory of My Traits - Survey

What combination of these traits do you have? Complete the survey to find out.

1.	I have detached earlobes	<b>Yes</b>	<b>No</b>
2.	I can roll my tongue	<b>Yes</b>	<b>No</b>
3.	I have dimples	<b>Yes</b>	<b>No</b>
4.	I am right-handed	<b>Yes</b>	<b>No</b>
5.	I have freckles	<b>Yes</b>	<b>No</b>
6.	I have naturally curly hair	<b>Yes</b>	<b>No</b>
7.	I have a cleft chin	<b>Yes</b>	<b>No</b>
8.	I have allergies	<b>Yes</b>	<b>No</b>
9.	I cross my left thumb over my right when I clasp my hands together	<b>Yes</b>	<b>No</b>
10.	The hairline on my forehead is straight	<b>Yes</b>	<b>No</b>
11.	I can see the colours red and green ( I am not colour blind)	<b>Yes</b>	<b>No</b>
12.	I am a:	<b>male</b>	<b>female</b>

#### An Inventory of My Traits - Data Table

- How many people in your group have each trait?
- Fill in the data table below by counting the number of people who marked “yes” and the number of people who marked “no” for each trait.
- Find the Percentage of Yes for each Trait
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$$\# \text{ of students with the trait} / \# \text{ of students in the class} \times 100 = \underline{\hspace{2cm}}\%$$

Number of students in class: \_\_\_\_\_

Trait	# of Yes	# of No	Percentage of Yes
<b>1. Detached earlobes</b>			
<b>2. Tongue rolling</b>			
<b>3. Dimples</b>			
<b>4. Right-handed</b>			
<b>5. Freckles</b>			
<b>6. Naturally curly hair</b>			
<b>7. Cleft chin</b>			
<b>8. Allergies</b>			
<b>9. Cross left thumb over right</b>			
<b>10. Have a straight hairline</b>			
<b>11. See the colours red and green</b>			