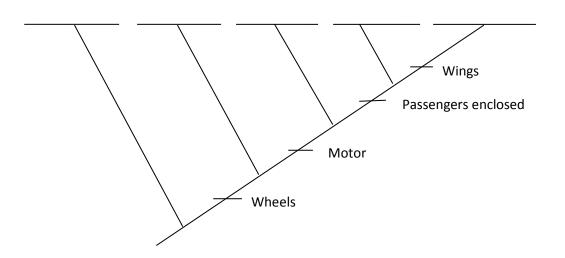
## **Cladogram Worksheet**

Refer to pages 524-528 in your text book to help you as you create the cladograms below.

- Think about the characteristics of the following methods of transportation: bicycle, car, motorcycle, airplane, and on foot. 1.
- Complete your cladogram by filling in each method of transportation on the appropriate line at the top. 2.

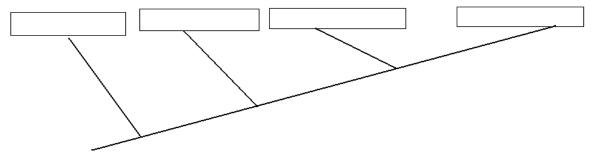
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- 3. Examine the cladogram above. Which trait separates bicycles from airplanes, motorcycles, and cars?
- 4. How many traits in common does the airplane and motorcycle have in common?
- 5. What is the point where two object break away from each other called?
- Which mode of transportation may be considered an "outgroup" a group that has none of the characteristics labeled on 6. the cladogram? \_\_\_\_\_
- 7. Fill in the following table. Mark an 'X' if an organism has each trait.

	Hair	Legs	Thumb	Eyes
Human				
Snake				
Monkey				
Mouse				

- 8. Create your own characteristics to complete the cladogram below. Add each of these organisms to your cladogram below: human, snake, monkey, mouse.
- 9. Be sure to label each branch of your cladogram with the proper characteristic.



- 10. According to your cladogram, what does a human and mouse have in common?
- 11. How many traits does the snake and mouse have in common?