

Cladogram Worksheet

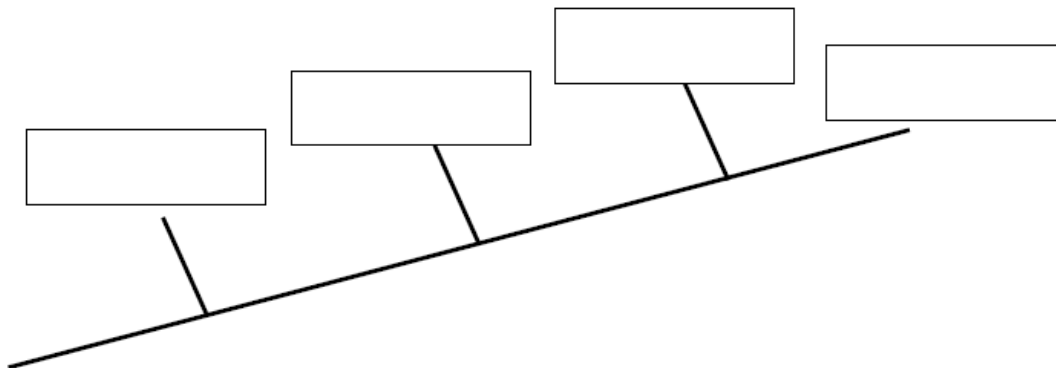
Name: _____

1. Fill in the following table. Mark an “X” if an organism has the trait.

| | cells | legs | 6 legs | wings |
|-----------------------|-------|------|--------|-------|
| Worm | | | | |
| Spider | | | | |
| Carpenter Ant (black) | | | | |
| Fly | | | | |

2. Add each of these organisms to the cladogram below: worm, spider, ant, fly

3. Explain why you put each organism where you did on the cladogram.



4. On the cladogram above, add traits that make the organisms different from each other.

5. According to your cladogram, which two species are more closely related: worms and spiders or worms and ants? How do you know?

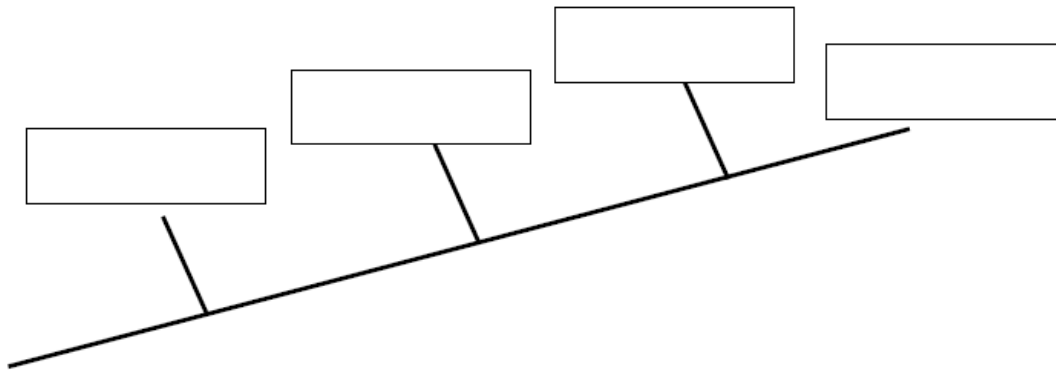
6. According to your cladogram, what species are flies most closely related to? How do you know?

7. Fill in the following table. Mark an “X” if an organism has the trait.

| | hair | legs | opposable thumbs | eyes |
|--------|------|------|------------------|------|
| Human | | | | |
| Snake | | | | |
| Monkey | | | | |
| Lizard | | | | |

8. Add each of these organisms to the cladogram below: human, snake, monkey, lizard

9. Explain why you put each organism where you did on the cladogram.



10. On the cladogram above, add traits that make the organisms different from each other.

11. According to your cladogram, which two species are more closely related: humans or snakes or humans or monkeys? How do you know?

12. According to your cladogram, what species are humans most closely related to? How do you know?