Unit 2

Name:

Date:

2-3: Comparing Things That Fly

Discover: Comparing Things That Fly

Question: How are birds and aircrafts similar?

Instructions

Compare an aircraft or helicopter to any type of bird that flies. You must identify the parts of an aircraft. You must identify adaptations that enable birds to fly. You must demonstrate the similarities and differences between the aircraft and the bird.

Your informative "Comparing Things that Fly" project should include the following:

1. A labelled diagram of the various parts of the aircraft/helicopter etc. (/9 marks)

   o Ailerons
   o Elevators
   o Rudder
   o Fuselage
   o Landing Gear
   o Propeller or Engine
   o Wings
   o Horizontal Stabilizer
   o Vertical Stabilizer

2. A labelled diagram of the various adaptations of the bird that enable flight (/5

marks)

    a. Wing
    b. Feather
    c. Streamlined Body Shape
    d. Legs
    e. Bones

3. An explanation of how the ailerons, elevators, rudder, and stabilizer work on an airplane (/6 marks)

4. Provide five examples of how the airplane lifts, descends, rolls, and turns left or right in the air using the terms: *ailerons, elevators, rudder*. You must use each of these terms at least once. You can use more than one term to describe the action your plane is taking. (/5 marks)

5. An explanation of how the wings, feathers, tail, bones work on a bird (/8 marks)

6. An explanation of how the aircraft uses the forces of flight (lift, drag, gravity, and thrust) (/4 marks)

7. An explanation of how the bird uses the forces of flight (lift, drag, gravity, and thrust) (/4 marks)

8. A description of what the bird and the aircraft have in common (/2 marks)

9. A description of how the bird and the aircraft are different (/2 marks)

Hand this assignment in either on as answered questions on this sheet or as a written report or power point.

Total: /45 marks

SAVE

Save Your File

Save your Table to your Air Notebook folder. Name your file with your name (jsmith) in this format: (yournamehere)sc6-2-3-bird. Submit your completed assessment to the submission folder.