

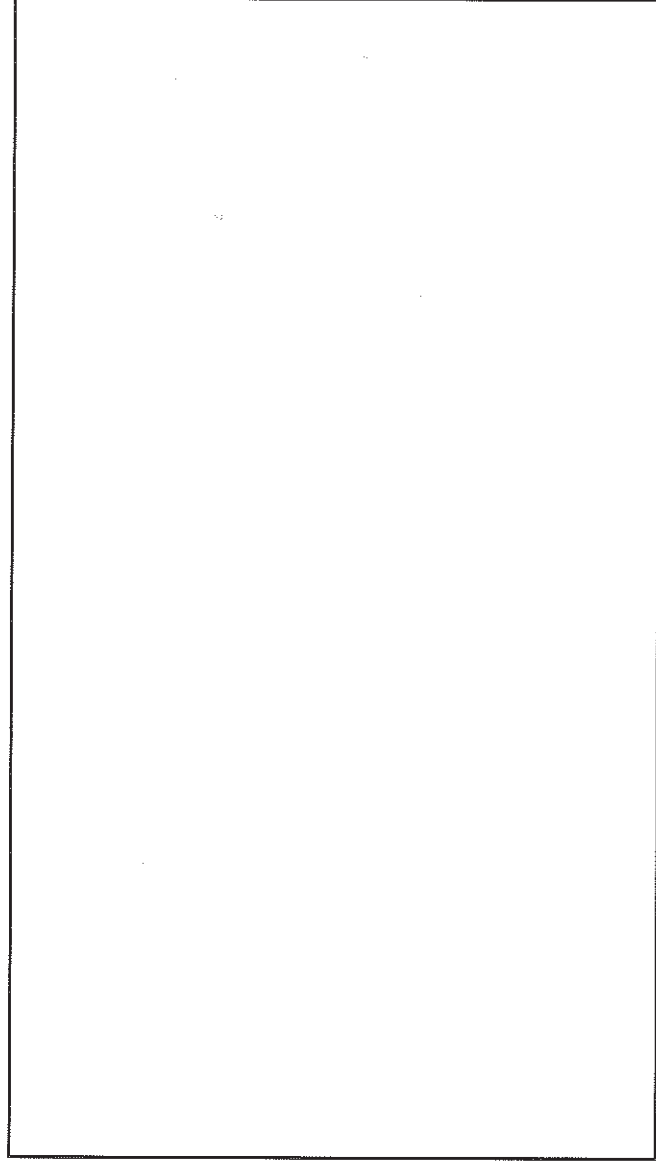
Date: _____ Name: _____

Testing Paper Airplanes

1. Construct a paper airplane that will fly.
2. Test your paper airplane.
3. Make any modifications to your airplane that you think will improve its flying.

Describe these modifications: _____

4. Draw a labelled diagram of your paper airplane.



5. Fly your plane and record how well it flew.

Length of flight was _____ metres

Description of flight _____

6. Increasing the mass of your plane will increase the force of gravity acting upon it. Add paper clips to your plane to investigate how flight is altered. Each time you add a paper clip, describe where you placed it, test the plane, and record how it flew.

First Paper Clip

Position _____

Length of flight _____ metres

Description of flight _____

Second Paper Clip

Position _____

Length of flight _____ metres

Description of flight _____

Third Paper Clip

Position _____

Length of flight _____ metres

Description of flight _____

Fourth Paper Clip

Position _____

Length of flight _____ metres

Description of flight _____

7. Describe the effects that the paper clips had on your plane's flight. Use the following terms in your description: *mass, gravity, distance, flight.*

8. Based on this investigation, describe what you think are important factors to consider when designing an airplane.
