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Please submit errors, omissions, comments or suggestions about this **checklist** to: Workbooks@USScouts.Org

Comments or suggestions for changes to the **requirements** should be sent to: Advancement.Team@Scouting.Org

 Cub Scout’s Name: Pack No. :

**Source for requirements: Cub Scout Wolf Handbook (#34752 - SKU 646428)**

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| **This adventure is an elective adventure which can be used to earn the Wolf Badge.** |

**Complete the following Requirements.**

 **1. Conduct two of the following investigations to see how air affects different objects:**

**⬜ a. Make a paper airplane and fly it five times.**

**⬜ Try to make it fly farther by altering its shape.**

**⬜ Fly it at least five more times to see if your changes were effective.**

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**⬜ b. Make a balloon-powered sled or a balloon-powered boat.**

**⬜ Test your sled or boat with larger and smaller balloons.**

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**⬜ c.. Bounce a basketball that doesn't have enough air in it. Then bounce it when it has the right amount of air in it.**

**⬜ Do each one 10 times.**

**⬜ Describe how the ball bounces differently when the amount of air changes.**

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**⬜ d. Roll a tire or ball that doesn't have enough air in it, and then roll it again with the right amount of air.**

**⬜ Describe differences in how they move.**

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**⬜ 2. Complete two of the following:**

**⬜ a. With other members of your den, go outside and record the sounds you hear.**

**⬜ Identify which of these sounds is the result of moving air.**

**⬜ b. Create a musical wind instrument,**

**⬜ and play it as part of a den band.**

**⬜ c. With an adult, conduct an investigation on how speed can affect sound.**

 **What was done?**

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 **What did you discover?**

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**⬜ d. Make a kite using household materials.**

**⬜ With your den or family, explain the rules for safely flying kites.**

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**⬜ Fly your kite..**

**⬜ e. With your family, den, or pack participate in a kite derby, space derby or rain-gutter regatta.**

**⬜ Explain how air helps the vehicle move.**

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**When working on Cub Scout Advancements and awards, Cub Scouts, their parents, and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088).Important excerpts from that publication can be downloaded from** [**http://usscouts.org/advance/docs/GTA-Excerpts-Cub.pdf**](http://usscouts.org/advance/docs/GTA-Excerpts-Cub.pdf)**.**

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