



**Andrea M. Smith**  
**Education Specialist, City of Allen**  
**Keep Allen Beautiful Staff Support**

# Due Date

A photograph of the poster must be submitted to [ContestKAB@gmail.com](mailto:ContestKAB@gmail.com) no later than 5 pm on Friday, February 5, 2021. Keep original poster in a safe place in case you are selected as the grand prize winner!

On the email please list the following:

1. Your first and last name;
2. Your grade and school name;
3. Your science teacher's name; and
4. Your parents contact information (email and phone number).

# PRIZES

Grand Prize: Tree planted in winner's honor at their school or at a City park.

Top 3 in city-wide competition are celebrated through a virtual awards ceremony and then mailed certificates and gift cards.

1<sup>st</sup> Place : \$20 gift card to Target

2<sup>nd</sup> Place: \$15 gift card to Target

3<sup>rd</sup> Place: \$10 gift card to Target

# ARBOR DAY POSTER CONTEST

- ◆ For 4<sup>th</sup> & 5<sup>th</sup> Graders in Allen ISD Only! This is a virtual contest and all students in 4<sup>th</sup> & 5<sup>th</sup> grades may submit a poster.
- ◆ An online gallery will display all posters submitted, on or before February 10, and located through a link found on the left side of the page under <http://cityofallen.org/974/Public-Education-Outreach>
- ◆ This city-wide competition is judged by Keep Allen Beautiful Board Members and City Staff.

# WHAT TO DO?

Read the Activities Guide and Rubric (Judging Criteria) found on the City of Allen website:

<http://cityofallen.org/974/Public-Education-Outreach>

# Paper or Poster Board Size

No larger than 14" x 18"

No smaller than 8 ½" x 11"

...or any size in-between

# Required Information

## Front of Poster

**“Trees are Terrific...and Energy Wise!”**

(Theme should be written somewhere on the poster)

**First and Last Name**

(Name written in bottom right-hand corner)

Please remember that this is an informational poster! You should include interesting facts and the names of the trees/shrubs. Review the Activity Guide and read the Rubric for the judging criteria!

Submit a photograph of the poster to [ContestKAB@gmail.com](mailto:ContestKAB@gmail.com) and keep the original in a safe place. If you are selected for the Grand Prize, you will be asked to provide the original poster.

On the email please list the following:

1. Your first and last name;
2. Your grade and school name;
3. Your science teacher’s name; and
4. Your parents contact information (email and phone number).

# WHAT TO DO?

1. Make sure that the theme is on the front – “Trees are Terrific...Energy Wise!” Make sure it is spelled correctly!
2. Must be original artwork. Do not glue anything to your poster. Computer or photo generated art and/or printing is NOT acceptable.

This is an informational poster to educate about Trees and Energy. Can include interesting facts on the poster. Label the types of trees/shrubs.



# HOW POSTERS WILL BE JUDGED

Required or Will be Disqualified:

- Correct Size of Paper or Poster Board
- First and Last Name on Front – Bottom Right-Hand Corner
- Theme spelled correctly on Front

**Total Points Possible - 25**

- ▶ Reflect knowledge about how trees produce and conserve energy – Worth 15 Points
- ▶ Artistic Merit – Worth up to 5 Points
- ▶ Technical Merit – Worth up to 5 Points

# DEMONSTRATE KNOWLEDGE

Create a poster that shows how trees produce and conserve energy. See the Activities Guide at <http://cityofallen.org/974/Public-Education-Outreach>

**a. Plant Trees to Produce Food Energy for People and Wildlife.** Trees or shrubs with high-energy food value can include: apple, orange, cherry, peach, oak, hazelnut, plum, etc. Can look up tree images on the internet.

**b. Grow Trees as an Energy Crop.** The wood from trees can be burned to release energy for heat to keep us warm or power to make things run. This energy is referred to as biomass energy. Another benefit is that trees help clean the air by taking in carbon dioxide and producing oxygen through photosynthesis.

# DEMONSTRATE KNOWLEDGE

**c. Plant Trees to Shade Your Home.** Carefully positioned trees can save up to 25 percent of a household's energy needs for heating and cooling. The most energy savings and the best use of shade generally comes from deciduous broadleaf trees which have leaves that are flat and thin. Oak, ash and maple are a few examples. Can look up tree images on the internet.

**d. Plant Trees to Shade Air Conditioning Units and Paved Areas.** Trees shading an air conditioning unit can increase its efficiency by as much as 10%. Trees shading paved areas will greatly decrease surface heat. In the process of transpiration, water escapes from small openings in a tree's leaves and cools the air around the tree. The net cooling effect of a young, healthy tree is equivalent to ten room-sized air conditioners operating 20 hours a day.

# DEMONSTRATE KNOWLEDGE

**e. Plant Trees to Break the Wind and Reduce Blowing Snow and Dust.** Planting a windbreak around a home can provide an energy savings of up to 30 percent and reduce blowing snow, noise and dust. Evergreen conifers with branches close to the ground form the best windbreaks. Pine, Red Cedar, and Douglas Fir are a few examples. Can look up tree images on the internet. Windbreaks should be planted in an L-shape (right angle) to the common wind direction. A well-placed windbreak can protect several homes or an entire development from chilling winter winds and drifting snow.

# OTHER CONSIDERATIONS

## Artistic Merit

- Use of Color
- Attention to Detail
- Unique Perspective

## Technical Merit

- Neatly Created
- Distance/Depth Perception
- Theme easy to read
- Consistent Lettering

# Due Date

A photograph of the poster must be submitted to [ContestKAB@gmail.com](mailto:ContestKAB@gmail.com) no later than 5 pm on Friday, February 5, 2021. Keep original poster in a safe place in case you are selected as the grand prize winner!

On the email please list the following:

1. Your first and last name;
2. Your grade and school name;
3. Your science teacher's name; and
4. Your parents contact information (email and phone number).

# Questions

Submit any questions to Andrea Smith, Education Specialist, City of Allen, through email

[ContestKAB@gmail.com](mailto:ContestKAB@gmail.com) or call 214.509.4552