Tornado Project Ideas For High School

List of top class Tornado Project Ideas For High School:

Weather and Storm Science

1. Make a tornado in a bottle with water and dish soap.
2. Create a wind speed meter with cups and straws.
3. Build a simple weather station to watch tornado signs.
4. Make a barometer with a jar, balloon, and straw.
5. Construct a model that shows how warm and cold air make tornadoes.
6. Compare tornado paths in different states with colored maps.
7. Create a safety brochure about tornadoes for your school.
8. Build a model house that stands up to strong winds.
9. Make a tornado siren with simple electronic parts.
10. Design an emergency tornado kit with all the needed items.
11. Create a tornado simulation using a fan and smoke.
12. Make a working rain gauge to measure storm rain.
13. Build a model that shows how tornadoes form from thunderstorms.
14. Create a poster showing the tornado EF rating scale.
15. Design a roof for a model house that can resist tornadoes.
16. Build a simple anemometer to check wind speed.
17. Create a kit to check damage after a tornado.
18. Make a tornado map using pushpins and string.
19. Design a shelter for tornado safety at school or home.
20. Build a model showing the wind inside a tornado.

21. Create a warning system for tornadoes with colored lights.
22. Make a poster with facts about tornado alley states.
23. Design a drill plan for tornado safety in your class.
24. Build a model that shows how tornadoes hurt buildings in different ways.
25. Create a coloring book on tornado safety for little kids.

Engineering and Construction

1. Design a tiny house that is strong against tornadoes with extra walls.
2. Build a small tornado shelter model with popsicle sticks.
3. Create a wind tunnel to test many building shapes.
4. Design plans for an underground shelter that can hold up to tornado force.
5. Build a model that shows how different roofs push back strong winds.
6. Create a window that resists tornadoes with special films and parts.
7. Design a safe room plan for houses in tornado zones.
8. Build a model that shows how anchor bolts hold up walls.
9. Create a demo of how hurricane straps work on roofs.
10. Design a mobile shelter that can be pulled by a truck.
11. Build a model that shows the right ways to build a strong base in tornado areas.
12. Create a door that can stand tornado winds using simple items.
13. Design a system to keep utilities safe during a tornado strike.
14. Build a model that shows safe and unsafe ways to build.
15. Create a design for playground equipment that is safe in tornadoes.
16. Design an entrance for a storm cellar that will not fly open.
17. Build a model that shows how inner walls keep people safe.

18. Create a mailbox design that stays in place during strong winds.
19. Design a safe parking spot for cars when tornadoes come.
20. Build a model that shows how to secure homes built in factories.
21. Create a demo of how garage doors break in a tornado.
22. Design a simple tie-down system for outdoor items in storms.
23. Build a model that shows how buildings can partly collapse.
24. Create a design for a greenhouse that resists tornado winds with flexible parts.
25. Design a community shelter for many families to use in a storm.

Environmental Science and Impact

1. Map how often tornadoes happened in the last 50 years.
2. Create a poster that shows how climate change changes tornadoes.
3. Design a plan to help wild animals after tornado damage.
4. Build a model that shows how tornadoes affect different habitats.
5. Create a display about how tornadoes hurt water systems.
6. Design a plan to replant forests hurt by tornadoes.
7. Build a model that shows how tornadoes make soil wash away.
8. Create a talk about how tornadoes hurt farms.
9. Design a plan to help nature grow back in tornado-hit spots.
10. Build a model that shows how tornado debris spreads.
11. Create a poster about how tornadoes change air quality.
12. Design a study that compares tornado and hurricane effects on nature.
13. Build a model that shows how tornadoes change river paths.
14. Create a display about how tornadoes hurt bee and butterfly numbers.

15. Design a plan to keep rare animals safe during tornadoes.
16. Build a model that shows how tornadoes affect wetlands.
17. Create a poster about tornadoes and city heat spots.
18. Design a study on how tornadoes harm different types of trees.
19. Build a model that shows how tornadoes spread seeds.
20. Create a display about tornado effects on water under the ground.
21. Design a plan for managing and reusing tornado debris.
22. Build a model that shows how tornadoes change small local climates.
23. Create a poster about tornadoes and invasive plants.
24. Design a study comparing tornado damage in wild vs. built areas.
25. Build a model that shows how tornadoes make new homes for plants and animals.

Community Preparedness and Response

1. Create an emergency system to share tornado news in your neighborhood.
2. Design an evacuation plan for your school in a tornado.
3. Build a model that shows the best spots for community shelters.
4. Create a program to teach young kids about tornado safety.
5. Design a clear plan for a community tornado drill.
6. Build a portable kit for people who survive a tornado.
7. Create a design for a tornado warning app using simple sketches.
8. Design a plan for the community to fix things after a tornado.
9. Build a model that shows the areas at risk in your town.
10. Create a guide with tornado help information for your town.
11. Design a safety poster about tornadoes in more than one language.

12. Build a model that shows routes for emergency help after tornadoes.
13. Create a checklist to help local businesses get ready for tornadoes.
14. Design a layout for a disaster help center for tornado victims.
15. Build a model that shows how schools can act as shelters.
16. Create a safety plan for people with disabilities during a tornado.
17. Design a donation system to help people after tornadoes.
18. Build a model that shows how neighborhoods can work together.
19. Create a board game to help families learn about tornado prep.
20. Design a script for a tornado safety video for local TV.
21. Build a model that shows how hospitals get ready for tornado victims.
22. Create a training plan for community volunteers for tornado help.
23. Design an alert system for outdoor public places when tornadoes come.
24. Build a model that shows different shelter choices in a community.
25. Create a plan for a community team to fix problems after a tornado.

Data Analysis and Technology

1. Create a simple tornado prediction tool using weather facts.
2. Design an app layout to track tornadoes with useful ideas.
3. Build a model that shows how doppler radar finds tornadoes.
4. Create a chart with colors to show tornado data.
5. Design a storm chaser car with the needed gear.
6. Build a model that shows how satellites watch big storms.
7. Create a tornado warning tool using Arduino or Raspberry Pi.
8. Design a drone to check tornado damage with needed parts.

9. Build a model that shows how tornado sirens are set up.
10. Create a map that shows tornado chances using old data.
11. Design a mobile app for people to report tornado damage.
12. Build a model that shows how weather balloons find tornado signs.
13. Create a tornado alert tool using bright LED lights.
14. Design a weather station with different sensors for tornadoes.
15. Build a model that shows how storm spotters tell of tornadoes.
16. Create a structure for storing tornado history information.
17. Design a warning system for tornadoes in rural areas.
18. Build a model that shows how weather radios work.
19. Create a tool to measure tornado strength using simple parts.
20. Design a form for people to collect tornado data.
21. Build a model that shows how tornadoes are sorted by damage.
22. Create a system to guess tornado paths using wind facts.
23. Design a wireless network of weather stations for tornado tracking.
24. Build a model that shows how alerts reach phones fast.
25. Create a tool to check tornado risk in different spots.

Psychology and Social Impact

1. Study how people act when they hear tornado warnings.
2. Create a survey about worry from tornadoes in your area.
3. Design a help program for the minds of tornado survivors.
4. Build a model that shows how communities fix up after tornadoes.
5. Create a project to interview locals about their tornado stories.

6. Design a fun activity for kids who were hurt by tornadoes.
7. Build a model that shows how social media spreads news of tornadoes.
8. Create a study comparing tornado beliefs in different cultures.
9. Design a plan for a support group for tornado victims.
10. Build a model that shows how schools start back up after tornado damage.
11. Create a project to collect stories from tornado survivors.
12. Design a healing garden for neighborhoods hit by tornadoes.
13. Build a model that shows the steps of feeling better after a tornado.
14. Create a guide to help families handle tornado stress.
15. Design a study on how different groups get ready for tornadoes.
16. Build a model that shows how emergency teams deal with stress.
17. Create a report on the money loss in a town from a tornado.
18. Design a community event to remember those lost in tornadoes.
19. Build a model that shows how tornadoes change neighborhoods.
20. Create a timeline for healing after a tornado event.
21. Design a study on how people see tornado warnings.
22. Build a model that shows how communities change after tornadoes.
23. Create a survey on how tornadoes hurt local businesses.
24. Design a program to ease fear of tornadoes in kids.
25. Build a model that shows how news covers tornado disasters.

Arts and Communication

1. Create art that is inspired by tornadoes using many materials.
2. Design a comic book on tornado safety with clear steps.

3. Build a machine that makes tornado sound effects with simple parts.
4. Create a photo exhibit that shows different views of tornadoes.
5. Design a poster for tornado warnings using symbols everyone knows.
6. Build a sculpture with recycled things that shows a tornado theme.
7. Create a song about tornado safety with easy words to sing.
8. Design an information campaign on tornadoes for social media.
9. Build a puppet show about tornado safety for young students.
10. Create a storyboard for a tornado documentary with main scenes.
11. Design a memorial for communities that suffered from tornadoes.
12. Build a wind chime that changes sound with the wind like a tornado.
13. Create a dance for tornado safety that shows how to protect yourself.
14. Design a calendar for a tornado awareness month with daily tasks.
15. Build a reading nook in a tornado shape for learning about storms.
16. Create a poem on tornado safety with clear and bright words.
17. Design a mural for your school hallway that has a tornado theme.
18. Build a motion sculpture that shows the flow of tornado winds.
19. Create a script for a radio show on tornado warnings.
20. Design a mascot for tornado safety with costume ideas.
21. Build a mobile that hangs from the ceiling and looks like a tornado.
22. Create a play on tornado safety with characters and a script.
23. Design a quilt with a tornado theme showing different storm parts.
24. Build a flag system that warns of tornadoes for outdoor areas.
25. Create a music video on tornado safety with a fun dance.

History and Cultural Studies

1. Research the worst tornadoes in history and what they did.
2. Create a timeline that shows how tornado tools got better.
3. Design a museum display about tornado myths from different cultures.
4. Build a model that shows how tornado shelters changed over time.
5. Create a talk about tornado folklore in many regions.
6. Design a tracker that shows big tornado events in history.
7. Build a model that compares how people reacted to tornadoes then and now.
8. Create a book about how native people saw tornadoes.
9. Design a talk about how tornado alley areas have moved over time.
10. Build a model that shows how tornado warnings changed over time.
11. Create a display about buildings that were made to fight tornadoes in the past.
12. Design a memorial for a very important old tornado.
13. Build a model that shows how our study of tornadoes grew.
14. Create a talk about tornado tales in books and stories.
15. Design a set of trading cards with facts about tornado history.
16. Build a model that shows old tornado paths in your state.
17. Create a display about how news on tornadoes has changed.
18. Design a board game on tornado history with real questions.
19. Build a model that shows tornado shelters from long ago.
20. Create a talk about how school safety lessons on tornadoes have changed.
21. Design a collection of items from old tornado events.
22. Build a model that shows how warning systems worked in the past.
23. Create a display about famous tornado chasers and scientists.

24. Design an oral history project to record local tornado stories.
25. Build a model that shows how tornado debris tells us old stories.

Physics and Atmospheric Science

1. Show how pressure changes can make a spinning air column like a tornado.
2. Create a model that shows how air temperature helps make tornadoes.
3. Design a test to see different shapes of tornado swirls.
4. Build a model that shows how wind shear helps form tornadoes.
5. Create a demo of the Coriolis effect on tornado spin.
6. Design a test to show how moisture helps make tornadoes.
7. Build a model that compares tornado formation in different weather.
8. Create a display about why tornadoes spin one way or another.
9. Design a test that makes a tornado-like swirl in water.
10. Build a model that shows a tornado's life from start to end.
11. Create a demo that shows how friction can change tornado paths.
12. Design a test that shows how heat can change a tornado's strength.
13. Build a model that compares tornado physics with other spinning things.
14. Create a display about the sound waves made by tornadoes.
15. Design a test to show how a tornado swirl stays steady.
16. Build a model that shows pressure changes in a tornado with small gauges.
17. Create a demo of how centrifugal force works in a tornado.
18. Design a test to show how land shapes change tornado paths.
19. Build a model that shows wind speeds at different heights in a tornado.
20. Create a display about the electric parts of a tornado and lightning.

21. Design a test to show how wide a tornado swirl can be.
22. Build a model that shows how a tornado meets other storms.
23. Create a demo of how spinning motion works in tornadoes.
24. Design a test to show how obstacles change a tornado's track.
25. Build a model that shows how a wall cloud forms in a tornado.

Media and Communication

1. Create a script for a radio broadcast about tornado emergencies.
2. Design a storyboard for a video on tornado safety with clear scenes.
3. Build a news reporting kit with tools needed for tornado news.
4. Create a website design that gives useful tornado facts.
5. Design an alert system for schools using simple color codes.
6. Build a sample text messaging system for tornado emergencies.
7. Create an outline for a podcast series on tornado safety topics.
8. Design a hotline script to give information about tornadoes.
9. Build a news ticker to show tornado updates in public areas.
10. Create a plan for a tornado safety campaign on social media.
11. Design a flow chart for how officials send out tornado alerts.
12. Build a model to test a community tornado siren system.
13. Create an infographic on tornado safety with easy pictures.
14. Design a storyboard for a TV ad on tornado awareness.
15. Build a warning system model for people who have trouble hearing.
16. Create a newsletter template on tornado safety for schools.
17. Design a booth for sharing tornado information at local events.

18. Build an alert system using colored flags for tornado warnings.
19. Create a design for a billboard that shows key tornado safety tips.
20. Design a phone tree system for tornado emergencies in a neighborhood.
21. Build a model for warning lights used during tornado events.
22. Create a brochure on tornado safety in more than one language.
23. Design a radio kit for emergency tornado broadcasts.
24. Build an information kiosk design for tornado facts in public buildings.
25. Create a dialogue design for a chatbot that sends tornado safety messages.

Tornado Project Ideas for School

1. Make a model that shows how tornadoes start from big, dark thunderstorms.
2. Plan a test that shows how pressure changes make tornado swirls.
3. Build a structure that can stand strong in a tornado using different building parts.
4. Look at data on how often tornadoes happen in different areas and times of year.
5. Make a working tornado maker with common things from home.
6. Create a plan to keep your school safe during a tornado.
7. Study how hills and flat lands change how tornadoes move.
8. Make flashcards that teach young kids how to be safe from tornadoes.
9. Design a safe pet house that can protect animals in a tornado.
10. Look at how climate change makes tornadoes stronger or weaker.
11. Build a small weather station to show when tornado conditions may come.
12. Learn about old tornado events in your area or state.
13. Make a warning system for tornadoes with simple electronic parts.
14. Plan a test that shows how different building shapes fight against strong winds.
15. Put together a tornado safety kit with a full list of supplies.

16. Look at pictures of tornado damage from recent storms.
17. Build a model that shows how tornadoes form at different heights in the air.
18. Plan an idea for a phone app that warns people about tornadoes.
19. Study how tornado predictions have gotten better over the years.
20. Make a model that shows the damage scale of tornadoes called the Enhanced Fujita scale.

2 Tornado Project Ideas for High School

21. Do a study of tornado events using maps made with GIS tools.
22. Build a working wind tunnel to check how buildings can stand up to wind.
23. Create a math model that predicts where a tornado will go using weather data.
24. Study what helps people survive tornadoes in different types of buildings.
25. Make a tornado detector using an Arduino board and many sensors.
26. Do a math study on how often tornadoes happen during El Niño and La Niña times.
27. Plan a safe community shelter for tornadoes that is easy for everyone to use.
28. Look at the money loss data from many recent tornado disasters.
29. Build a full model of a tornado that shows how the wind moves inside.
30. Study how cities change the way tornadoes form and how strong they become.
31. Design an idea for a drone to study and watch tornadoes.
32. Make a system to follow tornado debris using simple tags.
33. Create a simple demo that shows how angular momentum works in a tornado.
34. Learn how tornadoes affect the feelings of people in a town.
35. Plan safe farm buildings for animals and farm tools during tornadoes.
36. Look at how fast people react to tornado warnings in different groups.
37. Make a computer program that shows how tornadoes form in different ways.

38. Study how tornado swirls change when they hit different land shapes.
39. Make a plan for a warning system that works in many languages.
40. Create a model that guesses how strong a tornado will be using weather clues.

3 Tornado Science Fair Project Ideas

41. Compare how tornadoes form in different climates using careful tests.
42. Study how air pressure is linked to the strength of a tornado swirl.
43. Plan a test to see how different building shapes fight strong wind.
44. Study the sounds of tornadoes with a recorder.
45. Make a test that shows the Coriolis effect on how tornado swirls spin.
46. Check different types of soil to see how they wear away when a tornado blows.
47. Build a working tornado box that you can change the heat and wetness in.
48. Compare old and new tornado shelters to see which one is safer.
49. Do a test to measure how fast things move in different swirl shapes.
50. Study how different air conditions keep a tornado swirl steady.
51. Make a demo that shows how pressure changes work with a vacuum box.
52. Test how objects of different sizes change the path of a tornado-like swirl.
53. Plan a test that compares tornado forming with and without wind shear.
54. Study how sparks and flashes happen in a fake tornado.
55. Make a test that shows how heat changes make a swirl start.
56. Check how the roughness of a surface changes a tornado’s move and strength.
57. Plan a test that compares one big swirl to many small swirls in a tornado.
58. Study how dew makes the view and shape of a tornado change.
59. Make a demo that shows how warm air rising and cool air falling work in a tornado.

60. Test how the speed of spin changes the size of a tornado-like swirl.

4 Tornado Science Fair Project Hypotheses

61. More moisture in the air makes tornado swirls steadier than in dry air.
62. Buildings with round walls hold up against strong tornado winds better than flat ones.
63. Places with rough ground will see weaker tornadoes than smooth areas.
64. Big differences in air temperature make tornado swirls stronger.
65. More wind shear makes the spin in a fake tornado more neat.
66. The space between high and low pressure changes how wide and steady a tornado swirl is.
67. Tall buildings with open areas get more damage than ones with many rooms.
68. Different types of soil will lose ground at different speeds when wind blows.
69. Fake tornado swirls will follow set paths when they hit objects of many shapes.
70. The angle of wind coming in changes how steady a fake tornado stays.
71. The amount of water in the air will change how clear and shaped a tornado swirl is.
72. Buildings with strong corners will be tougher against strong tornado winds.
73. A faster spin will make the size of a steady fake tornado smaller.
74. When air moves to the middle, its spin makes the swirl narrow.
75. Tornado damage is worse on the right side of the storm path in the Northern Hemisphere.
76. Air instability numbers are linked to how likely a tornado is to form.
77. The amount of plants affects how fast wind moves near the ground in fake tornadoes.
78. How high a wall cloud is shows how strong a tornado might get.
79. Different roof shapes will show different strength against high winds.
80. More sparks happen with a faster spin in a fake tornado.