

Easy Science Fair Projects

Static Electricity

Here is a fun selection of Easy Science Projects Brought To You By:

Easy Science Fair Projects.



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Fun Science Fair Projects Kids Will Love – Static Electricity

All kids love the fun you can have with static electricity. This is why this is one of our science fair projects kids will really enjoy doing. This is a series of short experiments showing static electricity in action. The kids will be able to do most of it alone and all the supplies are readily available.

Here are our science fair projects kids will enjoy:

Remember, for all science fair projects you have to make notes of everything you do, why you do it, what you are trying to prove or demonstrate and your conclusion. It is always a good idea to take photos for your exhibition.

The case of the clinging balloons:

What you will need:

- A few balloons
- A wooly sweater

This is what you have to do:

1. Blow up your balloons and tie them securely
2. Rub the balloons against your sweater for a few minutes
3. Now press them against the ceiling
4. What happens?
5. What did you do when you rubbed the balloons against your sweater?
6. How does that make the balloons cling to the ceiling?
7. Make note of how long they stay there
8. Do you think there are factors that can make them fall down sooner or hang there for a longer period?
9. Try boiling a kettle in the room and see what happens (let an adult help here!)

Explanation:

- By rubbing the balloons against your sweater you are charging the balloons with electricity.
- How? They absorb small particles called electrons, which are negative electrical particles, from the sweater.
- Because objects that are electrically charged draw objects that are not electrically charged, the balloons "stick" to the ceiling until they are no longer electrically charged.
- Normally the balloons will stay there for a long time as the ceiling is a very weak conductor and the electrons flow very slowly through the ceiling because a room is normally very dry.
- If your room is a little more humid, it will take longer.
- It may be a good idea to do two experiments, one in dry air and one in humidity and see if your results differ.

Here is another of our Science Fair Projects Kids Will Enjoy on static Electricity. In this experiment we are going to see how two objects that are negatively laden "push" each other away. Opposite to a negative and positive drawing each other.

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The case of the hostile balloons!

What you will need:

- 2 Balloons
- 2 pieces of string
- A wooly sweater

How to do this experiment:

1. Blow up both balloons as much as possible without bursting them
2. Tie them with the strings
3. Rub both on your sweater for a few minutes
4. What happens?
5. Why do you think it happens?

6. What happens to the balloon closest to your sweater?

Explanation:

- After you have rubbed the balloons on your sweater, they are both negatively laden with electrons they withdrew from your sweater.
- Because the sweater has given off the electrons it is now positively laden, this is why the balloon closest to your sweater sticks to your sweater while the two balloons drift far apart.
- So, what does that tell you about two objects that are negative or positively laden?

Here is the next project in our series of science fair projects kids will enjoy. In this one we are going to try and separate finely ground pepper from salt! It is so important for kids to enjoy science that it is always good to do fun science experiments with them.

For a good science fair project you have to make notes of all your steps, saying what you are doing and why you are doing it. You must formulate a hypothesis, and do the experiment according to the correct scientific method and think of your display. It is always a good idea to take photos as you go.

The case of the pepper and the salt:

What you need:

- Very fine pepper
- Salt
- A plastic spoon
- A wooly sweater

What you have to do:

1. Sprinkle quite a bit of the pepper and salt on the table
2. Make sure you mix them well
3. Rub the plastic spoon on the sweater for a few minutes
4. Hold it above the mixture on the table, not too low but high enough for the pepper to attach to it
5. What happens?

6. What did you do when you rubbed the spoon on the sweater?

You must make sure the spoon is high enough, if it is not high enough the salt, that is heavier than the pepper, will also be able to jump as high as the pepper and the two will not separate.

Here is the next project in our series of science fair projects kids will enjoy. This is one of our really fun science fair projects kids will love to do. We are going to make a dancing paper snake!

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The case of the dancing snake

What you need for this experiment:

- A piece of tissue paper about 4 inches by 4 inches
- A pair of scissors
- A pen
- A wooly sweater
- A lid of a tin, big enough for your snake to fit on

How to do this experiment:

1. Cut a spiral formed "snake" out of the tissue paper
2. Place it on your lid
3. Bend the head of your "snake" so it is upward
4. Rub your pen on the wooly sweater for a few minutes
5. Hold it an inch or so above the snake
6. What happens?
7. Why do you think it happens?
8. Try and explain it after reading the explanation in the first experiment in this series on this blog

9. Why do you think we placed it on the tin lid?
10. Does it play any role in the "snake dance?"

Explanation:

- The clue here is that when you hold the electrically charged pen close to the snake which is uncharged it is drawn to the pen and lifts up toward the pen.
- The moment the electrons pass to the snake, the tin lid absorbs it and the snake is once again uncharged.
- That is why it keeps on lifting again and again.

Here is part six of our Science Fair projects Kids Will Enjoy about static Electricity. In this experiment we are going to see how a spoon, laden with static electricity, will draw puffed wheat or rice to it. Opposite to a negative and a negative "pushing" each other away as in our previous example.

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The case of the plastic spoon and the puffed wheat or rice:

What you will need for this experiment:

- A bowl of puffed wheat or rice
- A plastic teaspoon
- A woolly sweater

How to do your experiment:

1. Without doing anything to the spoon, keep it just above the bowl of puffed wheat or rice.
2. What happens?
3. Rub the spoon on your sweater for a few minutes to load it with the extra electrons until it is negative.

4. Now hold the spoon just above the bowl of puffed wheat or rice.
5. What happens?
6. Keep the spoon there.
7. Why does it happen?
8. What happens after a short while?
9. Why does it happen?

After you have done all the previous science projects, you should be able to explain what happened here. Remember you should be able to give a scientific explanation for every step and why you are doing it.

Here is the next project in our series of science fair projects kids will enjoy. In this project kids will see why the effect of static electricity takes of in humid conditions. Here we are going to use a plastic spoon to "bend" a very thin stream of water.

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The Case Of The Water "Bend!"

What you will need for this experiment:

- A plastic spoon
- A wooly sweater
- Access to a reliable tap where you can turn it on to make a really small little stream of water

How to do this project:

1. Rub the spoon against the wooly sweater for a few minutes
2. Open the tap so it makes the smallest stream possible
3. Bring the spoon close to the water stream
4. What happens?
5. Why do you think it happens?

6. Read the explanation about static electricity in the first of this series on static electricity.

Explanation:

- At first the electrically laden plastic spoon draws the water.
- Should the spoon touch the water, the experiment is over as water is a good conductor of electricity and will immediately draw the electricity from the spoon and the spoon will not be charged any more.
- Therefore it will stop "bending" the water.
- This is why experiments on static electricity works better on dry days than on days that are very humid.

Here is the last part of our Science Fair projects Kids Will Enjoy about static Electricity. In this experiment we are going to see how to objects that are negatively laden are attracted to objects that are positively laden. Once the objects are no longer negatively laden, they are not drawn by a positively laden object any more.

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The case of the dancing paper dolls:

What you need for your experiment:

- Two books
- A glass disk
- A metal plate
- Two books
- Tissue paper dolls about 3cm tall (cut any way you prefer as long as they not too big)
- A woolen cloth

How to do your experiment:

1. Cut out your paper dolls (about 3-4)
2. Place two books a little way apart with the metal plate between them
3. Place the glass disk over them to be over the metal plate
4. Place the paper dolls in the metal plate
5. What happens when you place the paper dolls on the metal plate under the glass disk?
6. Now rub the glass disk with the woolen cloth for a few minutes
7. What happens?
8. Why does it happen?

Explanation:

- By rubbing the glass disk with the woolen cloth it is loaded with electron to make it negative
- Now the disk draws the positively laden paper dolls and they are also loaded
- Now they drop down and the metal plate draws the electrons from them, once again making them positive
- Now the glass draws them again and so the dance continues

I think this can be quite a good display for your friends to admire!

Well, I think you can now have lots of fun with static electricity. You can go to [Easy Science Fair Projects](#) for many more fun and easy projects.

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