FROM THE SCIENTIFIC POINT OF VIEW

Fluffy Fun is a chemical experiment showing the possibilities of polymers called **superabsorbents**.

Superabsorbents are polymeric substances which absorb large amounts of water and as a result increase their size up to a thousand times. For example: 1 kg of powder is able to absorb even **1 ton of water**!

Superabsorbent included in the kit is **sodium polyacrylate**. It is a non-toxic powder which, under the influence of water, before our eyes, begins to absorb water and grow in size. Each particle of this powder increases in volume almost **thirty times**.

However, it should be remembered that the storage capacity of water by polymers is not permanent. If we leave them for a few days in a dry place, the water will evaporate from them and the superabsorbent will return to its original look.

APPLICATION OF SUPERABSORBENTS

Superabsorbents are widely used in many industries. In agriculture, they are used to keep soil moist. In the pharmaceutical industry, they are used in the production of active dressings. However, the most popular application is to absorb moisture in disposable diapers.

FLUFFY FUN

Fluffy Fun is a set designed for amateurs of laboratory experimentation and creative play.
The kit contains a hydrogel, which is a superabsorbant (i.e. a component that absorbs very large amounts of water). During the experiment, the child learns what it is and how the absorption process works.
The result of the experiment is stunning and provides many sensory impressions. A child can touch Fluffy Fun, mix colours, make balls, create cupcakes.

DID YOU MANAGE TO DO THIS EXPERIMENT?

We would be very pleased if you would be willing to share the result of your experience with us. Post a photo or video on Facebook or Instagram.
Mark us: **@KrainaEksperymentow :)**

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THE SET INCLUDES:

1. protective tray
2. glass beaker
3. 6 plastic glasses with measuring cup
4. 3 different dyes
5. 3 pipettes
6. teaspoon
7. 3 capsules with a hydrogel
8. 3 storage containers
9. instruction

The set includes ingredients for making Fluffy Fun in three colours.
You can do one experiment with one colour or all at once.

KRAINA EKSPERYMENTÓW

FLUFFY FUN

INSTRUCTION TO PERFORM THE EXPERIMENT

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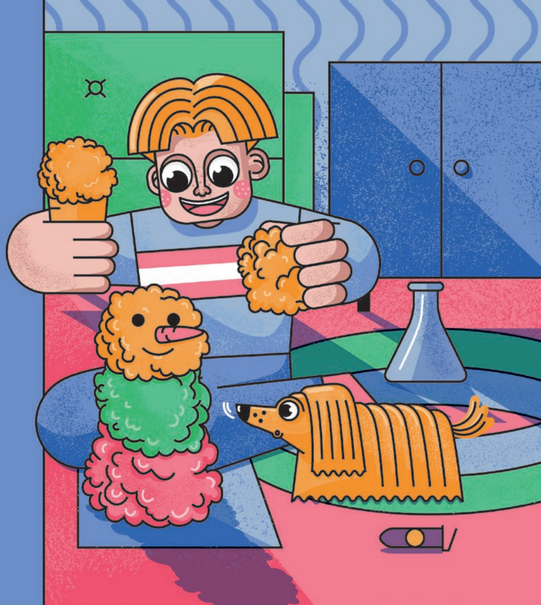

PLAY WITH FLUFFY FUN IN A MILLION WAYS!

After a properly conducted experiment, we received 3 cups filled with 3 colours of fluffy mass.

- Using a spoon, we can pour the contents of each container onto the tray, so that there is only one colour of our mass on one tray. We can play with each colour separately or combine them into new compositions. However, it should be remembered that the colour mixing process in this case is irreversible.
- Using a glass as a mould, let's do single-2 colour or multi-coloured cupcakes. Let's form 4 different shapes. Play with mini toys that can be placed in a colourful mass.
- Create your own snow compositions.
- Let your imagination run wild and have fun according to your own idea!

1 PREPARING THE WORKSTATION

Pour 100 ml of water into the beaker (2). Place the following items on the tray (1): 2 measuring glasses (3), one dye of your choice (4) and one pipette (5).

2 THE COURSE OF THE EXPERIMENT

Using a pipette (5), pour 20 ml of water from the beaker (2) into each container (3).

To one glass (3), add the dye (4) (amount as desired) and the entire contents of the hydrogel capsule (7).

3 FLUFFY FUN

Watch as the hydrogel absorbs the water. We call this phenomenon **absorption**. Initially, a jelly is formed, which after a while takes the form of Fluffy Fun.

4 COOL! YOUR EXPERIMENT IS READY!

Repeat the course of the experiment using more glasses and dyes. This way you will get 3 containers filled with Fluffy Fun.

OUR ADVICE:

Slime is ready to play. You can use our hints or invent your own play with the use of slime. If it is too wet, let the water evaporate from it.

PLEASE NOTE! YOU ARE DOING EXPERIMENTS!

Although the kits do not contain poisonous substances you must always be careful. While experimenting **do not eat or taste any products or ingredients**.
If you accidentally swallow any of the ingredients, rinse your mouth with water. If there are any disturbing symptoms, take a leaflet and go to a doctor with it. The kit is **not suitable for children under 3 years of age**. After the conducted experiment **always wash your hands**.