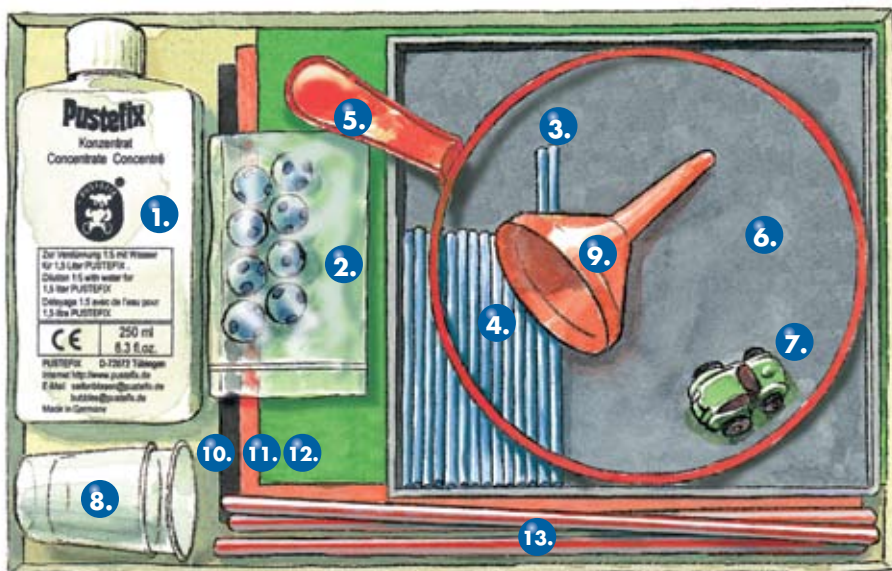


BUBBLE **SCIENCE**

Experiment Manual



Kit Contents



Your Bubble Science Experiment Kit contains the following parts:

No.	Description	Quantity	Part Number
1	Pustefix Concentrate, 250 ml	1	-
2	Connection ball	8	000 401
3	Connecting rod, long	2	000 402
4	Connecting rod, short	12	000 403
5	Big bubble ring	1	000 404
6	Plastic tray with fixtures	1	000 405
7	Toy car	1	000 406
8	Measuring cup (5 to 30 ml)	2	065 098
9	Plastic funnel	1	000 410
10	Construction paper, black	1	000 407
11	Construction paper, red	1	000 411
12	Construction paper, green	1	000 412
13	Straw	3	000 414

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Fascinating Giant Bubbles

09 Experiment

The Soap Bubble Frame

With two straws from the experiment kit and a piece of cotton thread, you can make a soap bubble frame. It can be used to make giant soap bubbles.

- **Materials from the kit:** 2 straws, soap solution (Pustefix concentrate, or recipe 1 or 2, see page 6).
- **Additional materials:** a bucket or bowl, cotton thread (about 60 to 80 cm)

➔ Procedure:

Push the cotton thread through the two straws (with the help of a knitting needle or thin stick if you need it). Tie the ends of the string together so that you get four sides of about equal length: two straw sides and two cotton thread sides.

Fill a bucket or a flat pan with soap solution. Hold the soap bubble frame by the two straws like two handles and dip the entire device into the solution. Make sure that your hands also get wet. Dry spots on your skin will destroy the soap film. When pulling the frame out of the solution, hold your hands a few inches apart, so that the string is not taut.

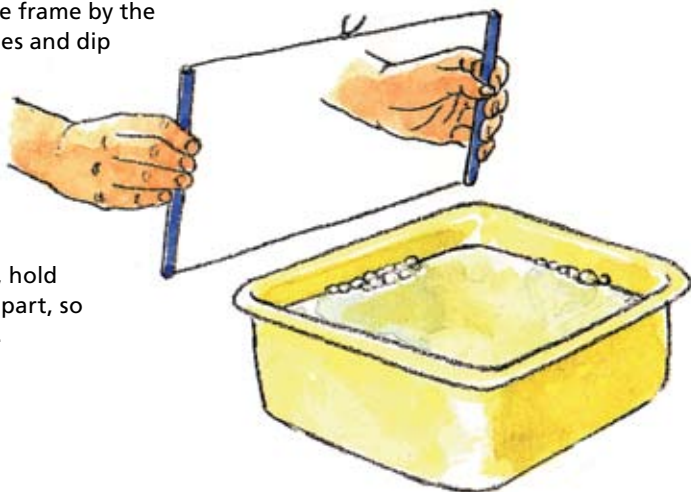
1.

Hold the soap bubble frame by the two straws and dip it into the soap solution.



2.

A soap film will be stretched between the four sides of the frame.





3.

To make a gigantic bubble, pull the soap bubble frame through the air gently.

Once the frame is out of the bucket, slowly pull your hands apart to stretch the frame into a rectangle. There will be a soap film inside the frame. When you pull the frame gently and steadily through the air, a huge soap tube will

be formed. To close it into a bubble, you only have to bring the two straws together. With some experience and the correct weather conditions, you can now create gigantic bubbles!

DID YOU KNOW?

Did you know the largest soap bubble ever recorded was over four feet long?

In 1996, the soap bubble expert Bernward Krämer made the largest soap bubble ever. His giant bubble was 3.7 meters long and had a diameter of 1.5 meters. This achievement put him in the Guinness Book of Records. With a homemade gigantic soap bubble ring (2 m diameter!) he succeeded in enveloping 7 people at one time with soap film. In addition, a rabbit and a hamster were also inside the bubble (see page 5).

