

#### >>> KIT CONTENTS



### Checklist: Find - Inspect - Check off

~	No.	Description	Quantity	Item No.
0	1	Paper sheets (1 sheet for cutting ar 2 sheets for airplanes	1 nd )	703 545 705 710 705 711
O	2	Die-cut cardboard	1	715 738
$\overline{\mathbf{O}}$	3	Garden cress seeds	1	705 133
0	4	Plastic dish (2 halves)	1	702 184
$\overline{o}$	5	Magnifying glass	1	311 137
$\overline{o}$	6	Flexible straw	2	705 249
$\overline{o}$	7	Straw	6	707 779
$\overline{o}$	8	Clay pot	1	121 816
$\overline{o}$	9	Plastic bag	1	703 547
$\overline{o}$	10	Disk/Spinning top	1	703 548
0	11	Sundial	1	259 181
$\overline{o}$	12	Plastic stick	1	700 401
0	13	Rubber band	5	161 412
0	14	Polystyrene ball	1	700 080

~	No.	Description	Quantity	Item No.
Ō	15	Paper bag	3	700 083
O	16	Paper clip	2	020 040
O	17	Suction cup	1	700 181
O	18	Blotting paper	1	000 569
O	19	Soap bubble ring	1	000 583
O	20	Modeling clay	1	000 588
O	21	Wool thread	1	702 751
0	22	Small polystyrene soap boat	1	700 633
$\overline{\mathbf{O}}$	23	Pipette	2	232 134
O	24	Measuring cup	2	061 150
$\overline{\mathbf{O}}$	25	Measuring cup lid	2	061 160
$\overline{\mathbf{O}}$	26	Round filter paper	12	702 842
0	27	Polystyrene air-cushion boat and polystyrene disk	1	700 088
O	28	Funnel	1	700 364

Any materials not included in the kit are marked with this symbol + under the "You will need" heading.

- » Please do a preliminary review of the parts list and check to make sure that all of the correct materials are included in the kit.
- » If you are missing any parts, please contact Thames & Kosmos customer service.

You will also need: Paper towels, water, toy block, plant parts, trowel, scissors, potted plant, string, confetti or tiny paper pieces, wool cloth, glue, glass bowl, sugar, soap flakes or bar of soap, drinking glass, soup bowl, saucer, ballpoint pens, markers, crayons, vegetable oil, ink, white paper, desk pad or blotter, small pieces of paper, teaspoon, tablespoon, pepper, salt, dish detergent

#### **EXPERIMENT 4**

# **Plants also** sweat

**YOU WILL NEED** 



- + String



Continue to experiment! Repeat the experiment in the garden, for example with a leaf or branch from a hedge or bush. The leaf of a sunflower also works well for this experiment.



## WHAT'S HAPPENING

After some time the bag will fog up. Small water droplets will form. Depending on the time of year and the plant, this can take up to a couple of hours.

People and animals aren't the only living things that sweat: plants sweat too! With their roots, they absorb water from the soil. They expel the excess water into the air. This happens through tiny openings on the underside of the leaves. The plant needs the water to transport and distribute nourishment to the entire plant.

#### **EXPERIMENT 21**

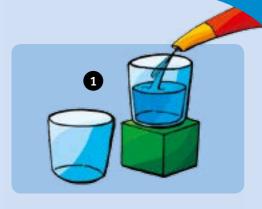
# The string pipe

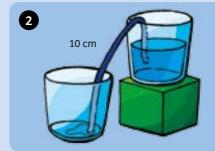
**YOU WILL NEED** 





- + Building block
- + Scissors
- + Water





### WHAT'S HAPPENING

After a little while, water slowly flows through the string from the full cup into the empty cup. Between the string's fibers there is air, like in a sponge. These spaces fill up with water. When the string has filled entirely,

its lower end. As additional water flows in from above, the small water pipe continues to run.

water begins to drip out of

Continue to experiment! You can use the water pipe to supply water to

Make sure that the water cup is always higher than the flowerpot.

your flowers in the windowsill. Find out what happens if the measuring cup and flower pot are at the same elevation.