**1. Luft entdecken/ Discover the air**

Versuche mit Luft/ Experiments with air:

(aus „Erlebniswelt“ 1 / 2 2014 Oldenbourg Schulbuchverlag GmbH, München)

**2. Luft entdecken**

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**3.Fallschirme bauen/ *We build parachutes***

du brauchst /*you need:*

Küchenpapier (26x26cm), 4 gleich lange Fäden, 1 Bonbon, (Klebeband) /

*Kitchen paper (26x26cm), 4 threads of equal length, 1 candy*

Knote an jede Ecke des Küchenpapiers einen Faden. Knote die anderen 4 Enden der Fäden an das Bonbon. (Du kannst anstatt zu knoten auch einfach alles mit Klebeband festkleben.) Viel Spaß beim Ausprobieren!

*Knot a thread at every corner of the kitchen paper. Knot the other 4 ends of the threads to the sweet. (You can also stick everything with tape instead of just knot it) Have fun tryin*g!

Versuche einen eigenen Fallschirm zu bauen. Verändere Material, Länge der Fäden, Gewicht. Vergleicht eure Fallschirme. Was beobachtest du? Kannst du das erklären?

*Try to build your own parachute. Change material, length of threads, weight. Compare your parachutes.* *What do you observe? Can you explain that?*

Erläuterungen:

Luft umgibt uns, ist aber unsichtbar. Die folgenden Versuche helfen Luft sichtbar und erfahrbar zu machen.

Explications:

Air surrounds us, but is invisible. The following experiments help to make air visible and tangible.

**Experiment 1:**

Think what's happening. Draw in the empty boxes. Do you have an explanation?

You need: a balloon

You need: a glass of water, a straw

You need:a transparent bottle, an aluminum ball

**Experiment 2:**

You need: a transparent bottle, a balloon, a straw

1. Put the balloon into the bottle. Bubble the balloon. Can you do it?

2. Put a straw in the bottle next to the balloon. Blow heavily into the balloon. What is happening?

Explanation:

In the bottle is air. The air in the bottle needs space. Only when it is directed to the outside via the straw, you can blow up the balloon in the bottle.

**Experiment 3:**

You need: Balloon, thread, straw, adhesive tape

1.Push the thread through the straw. Two children should hold the thread.

2. Blow up the balloon, but do not bind it.

3. Another child now sticks the balloon with the adhesive strips on the straw. 4. Release the balloon. What is happening?

Explanation:

The air flows out of the balloon. Therefore, the balloon shoots forward along the thread. (Recoil)