



www.zauberhafte-physik.net

Older people volunteering in elementary schools

Experiences of the initiative **M**agic **P**hysics



Mobil support



Group of volunteers in 2012



Experimenting together



www.zauberhafte-physik.net

Magic Physics with Lesson Modules

such as: „We are performing magics with air, water, electricity,.... „



A **moderator** is guiding through the lesson, 3 to 4 **volunteers** are assisting the groups



Different tasks of volunteers: developing, constructing and assisting children



www.zauberhafte-physik.net

Magic Physics with Reading Boxes I

in elementary schools: Learning to read with Physics



Reading the instruction

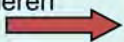


Putting together the experiment



Experimenting

1. Bild von den Materialien an die Wand projizieren



2. Bezeichnungen von den Kindern nachsprechen lassen und auf die Folie schreiben



3. Materialien hoch halten und herum zeigen

Refugee class at the

Eosander-Schinkel-Grundschule am 4.5.2016

Lesebiste: „Die Papierspirale“

- Hazem (9) Syrien
- Nader (10) Syrien
- Aya (12) Syrien
- Tasnim (12) Syrien
- Jenny (12) Syrien
- Arman (11) Afghanistan
- Arsalan (11) Afghanistan
- Huda (12) Irak
- Mariam (9) Ägypten
- Luiza (9) Brasilien
- Ivon (11) Bulgarien
- Hanna (9) Kroatien



4. Anleitung lesen, Anweisungen umsetzen

www.zauberhafte-physik.net



5. Papierspiralen ausschneiden, am Faden befestigen und anmalen



6. experimentieren: in der aufsteigenden, warmen Luft dreht sich die Spirale



7. Zusatzversuche: Thermometer



Fliegender Teebeutel



Springbrunnen



zwei Lernpatinnen



Recruitments of Volunteers

- Well know surroundings.
- Offer of various, suitable projects and tasks, detailed descriptions.
- Personal approach supported by material via existing connection (friends, former company, associations...)
- Smooth and flexible start, but immediate inclusion.

Market of possibilities for
retired employees of Bayer in Berlin





Volunteers of the Magic Physics (excerpt)

	Name	Vorname	Kontakt durch:	Einsatz ab	Jahrgang	Beruflicher Hintergrund
			Recrited by	since	born	Professional background
1	A	Helga	Maren Hz / VDI-Pressemitteilg. 05/2012	06/2012		Dipl.-Ing. Chemie
3	B	Ute	Maren Hz/ Tennis	03/2007	1941	Hausfrau
4	B	Paul	BstB	05/2009	1942	Dipl.-Informatiker
5	B	Edith	Maren Hz/ Tennis	02/2008	1940	Verwaltungsangestellte
6	B	Jürgen	Maren Hz / Tennis	02/2008	1940	Ingenieur Maschinenbau (Benjamin-Franklin)
7	B	Christian	Maren Hz	03/2010	1982	Dipl.-Ing. Elektrotechn.(Doktorand TU Berlin)
8	B	Wolfgang	Maren Hz/Hartmut Bw/Bayer-Veranstaltg 2010	09/2010	1943	Chemotechniker (Schering/ jetzt Bayer)
9	B	Hartmut Bw	Maren Hz / Radtour	01/2008	1943	Dipl. Kaufm./Ingenieur (Schering/jetzt Bayer)
10	B	Peter	Maren Hz / VDI-Pressemitteilg. 05/2012	06/2012		Dr.rer.nat. Dipl.-Phys. (Daimler)
11	D	Knut	Maren Hz/Schultze/Vattenfall-Veranstaltg 2011	09/2011	, (Vattenfall)
12	D	Christoph	BStB / Webseite	09/2011		Student Wirtschafstingenieurwissen. (TU Berlin)
13	F	Simon	Maren Hz	10/2012		Dipl.-Ing. Techn. Umweltschutz (Müller BBM)
14	F	Ursula	Maren Hz	01/2008		Dipl.-Ing. Bauwesen (Deutsche Bahn)
15	H	Herbert	Maren Hz	12/2008	1942	Dipl.-Phys. (Neurologie Humboldt-Universität)



Requirements of Volunteers

- Appreciation.
- Meaningful goals.
- Flexible, short terms obligations.
- Professional support.
- Exchange of experiences, further education, increase of know how.
- Enthusiasm, fun.





Advantages and Problems of Voluntary Work

Advantages:

- Support of governmental tasks.
- Compensation of missing grandparents.
- Integration of generations.
- Increase of seniors' self-confidence.
- Improvement of seniors' image to the public.

Problems

- Coordination of the different groups,
- Changing needs, recruitment of appropriate volunteers
- Continuity of voluntary employment, and financing
- Public attention



www.zauberhafte-physik.net

Volunteers with their Mentees





Image Change by Voluntary Work



A remark of an eight years old boy to one of my senior volunteers:

*“Considered,
how old you are,
You are really quite smart!”*

Originalton:

*“Dafür, dass Du schon so alt bist,
bist Du ganz schön schlau.”*

Documentation of the “Zauberhafte Physik”:

www.zauberhafte-physik.net