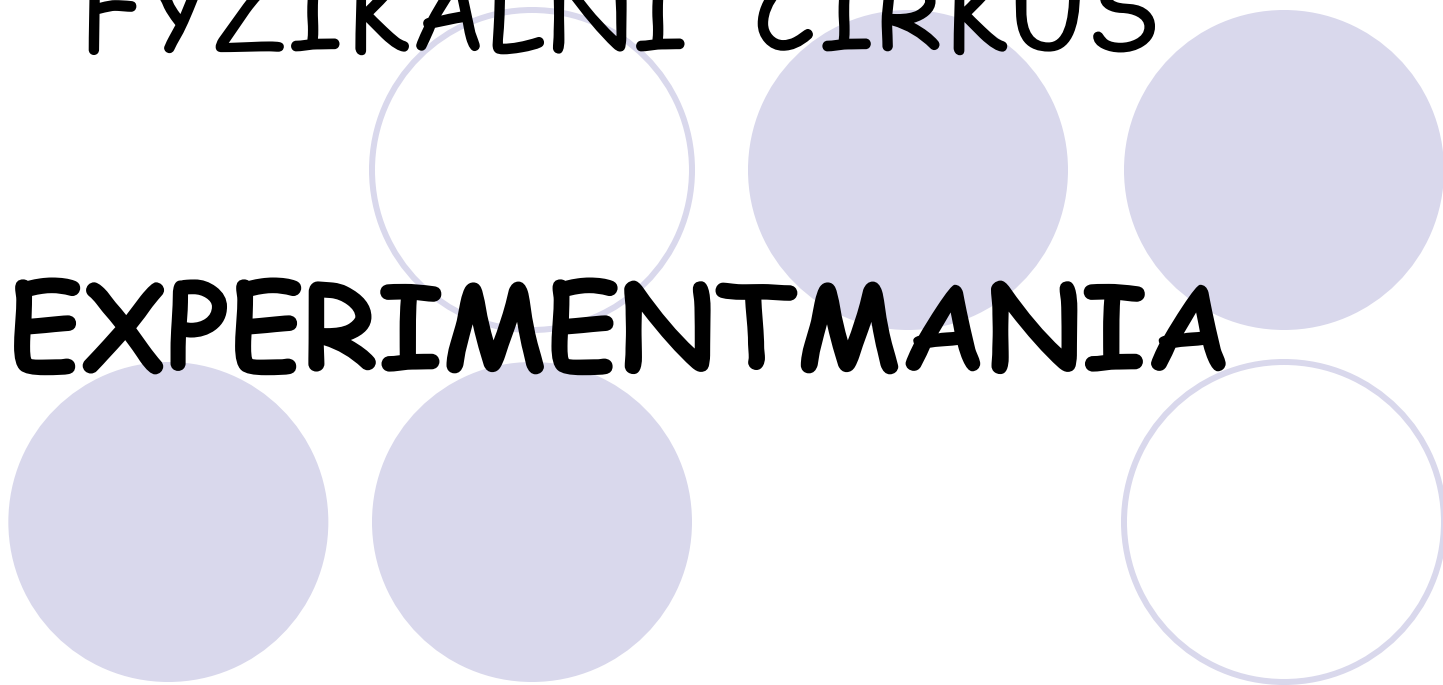


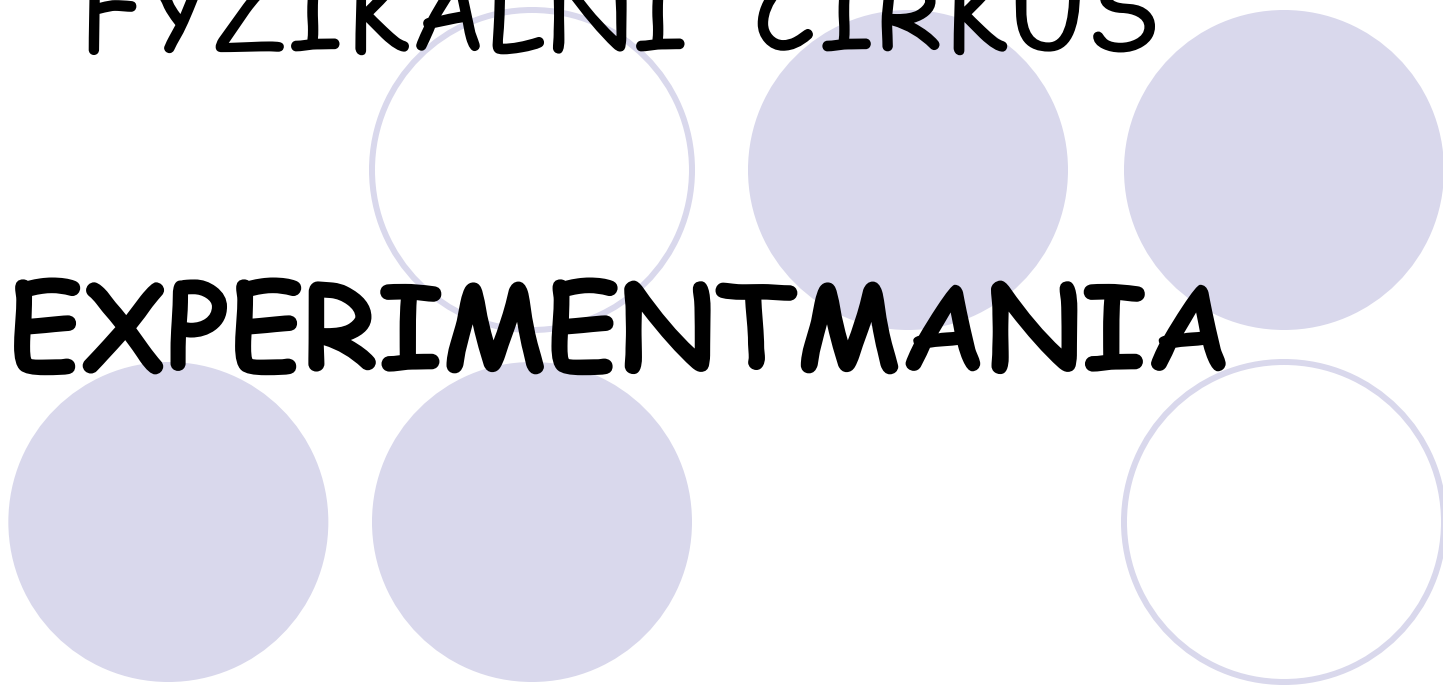
FYZIKÁLNÍ CIRKUS

EXPERIMENTMANIA



FYZIKÁLNÍ CIRKUS

EXPERIMENTMANIA

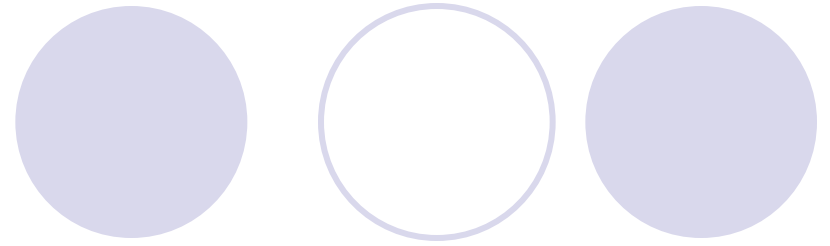
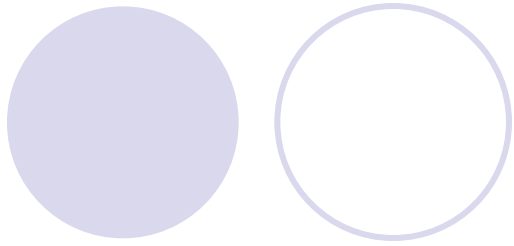


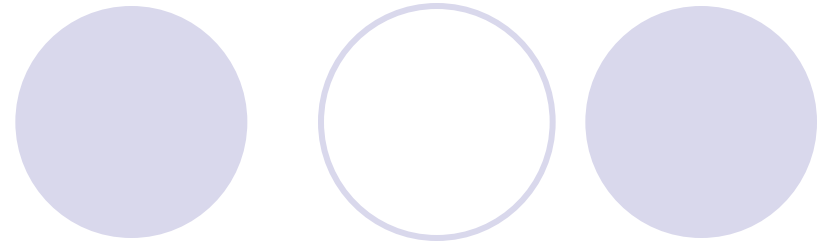
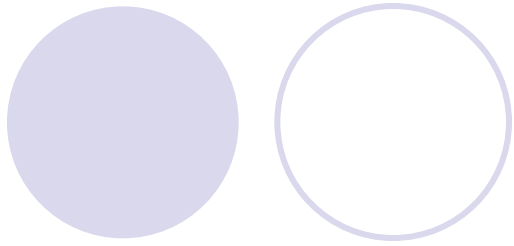
ZÁKLADNÍ ŠKOLA, BRNO NOVOLÍŠEŇSKÁ 10



ŠOK Školní Odborný Klub









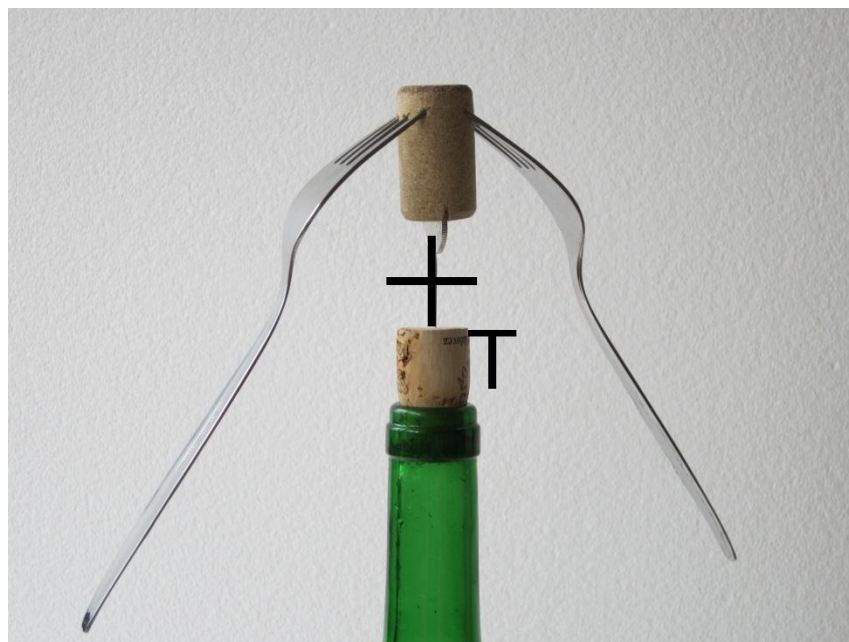
Ne tradiční akrobaté

Duo akrobatky

Poloha tělesa je stabilnější:

- Při větší tíze tělesa
- Těžiště musí být nízko (poloha těžiště závisí na rozložení látky)
- Plocha podpěry je rozměrnější
- Svislá přímka z těžiště protíná základnu tělesa

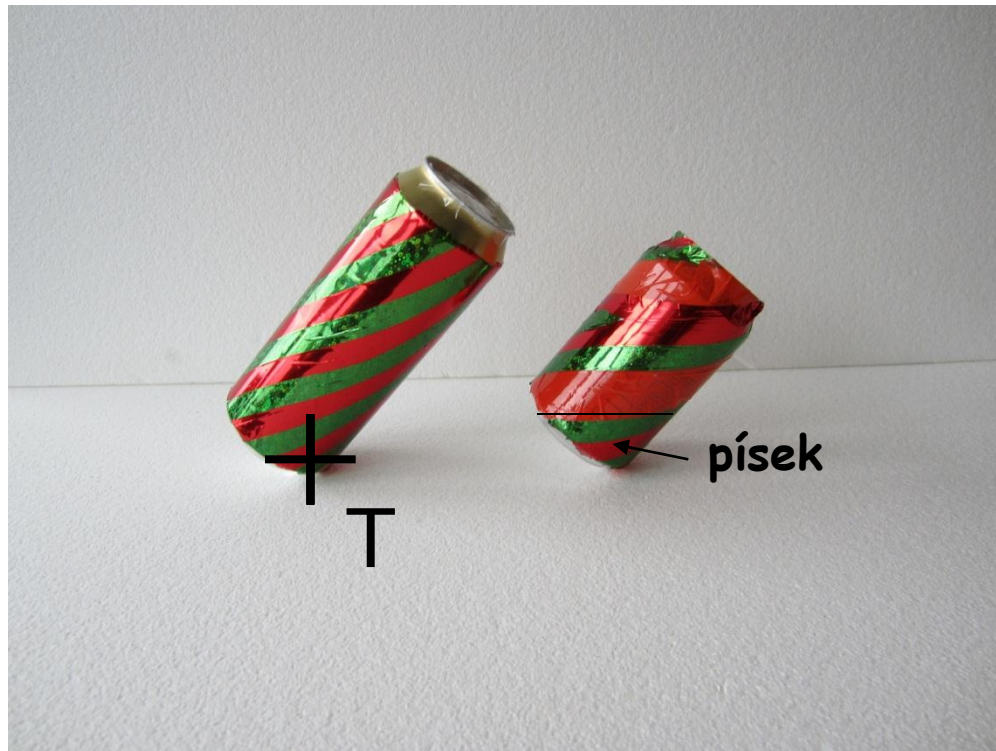
Akrobatické soupravy s vidličkami



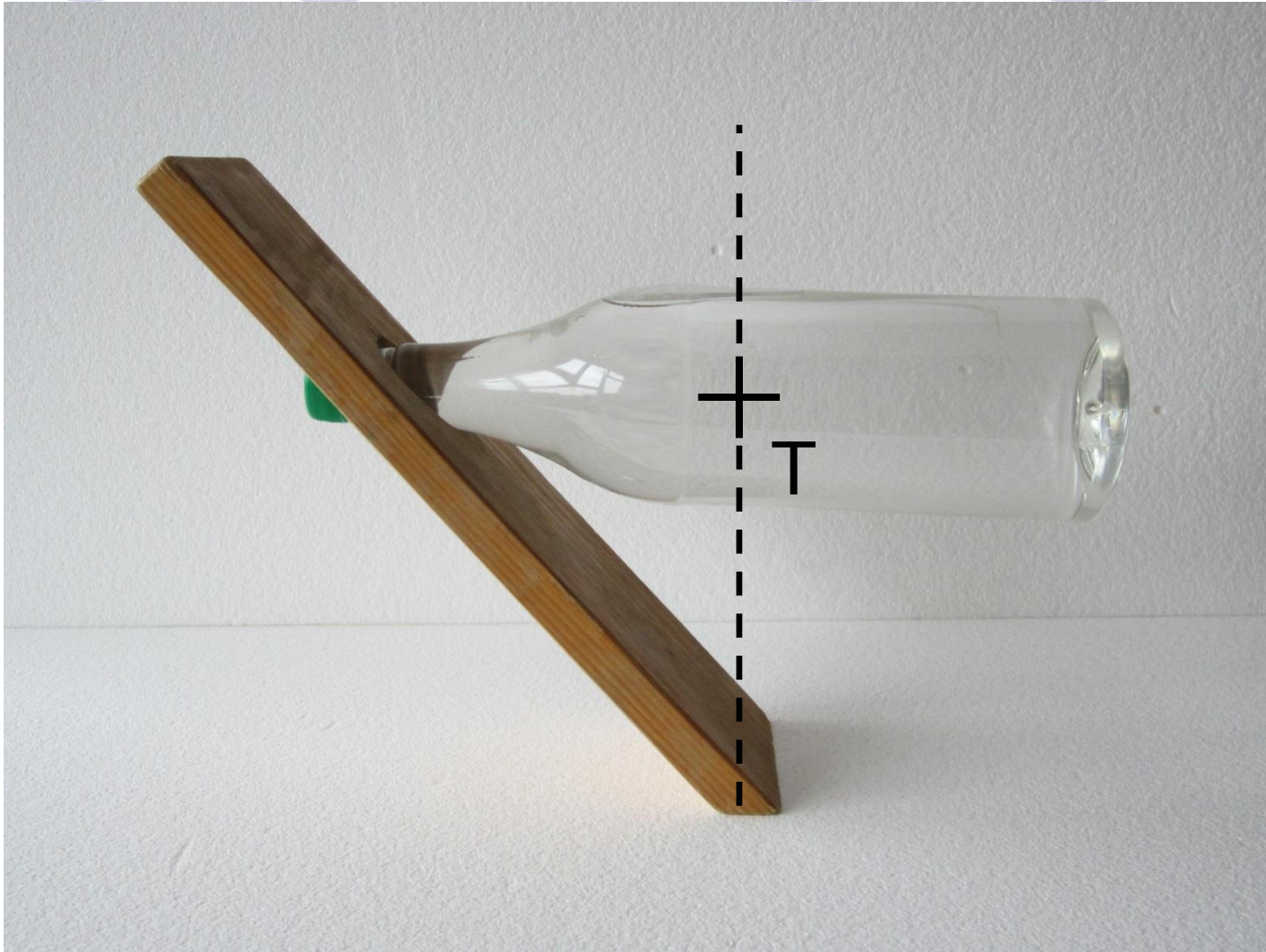
Souprava se sklenicemi



Plechovka stojící „na rohu“



Levitující láhev

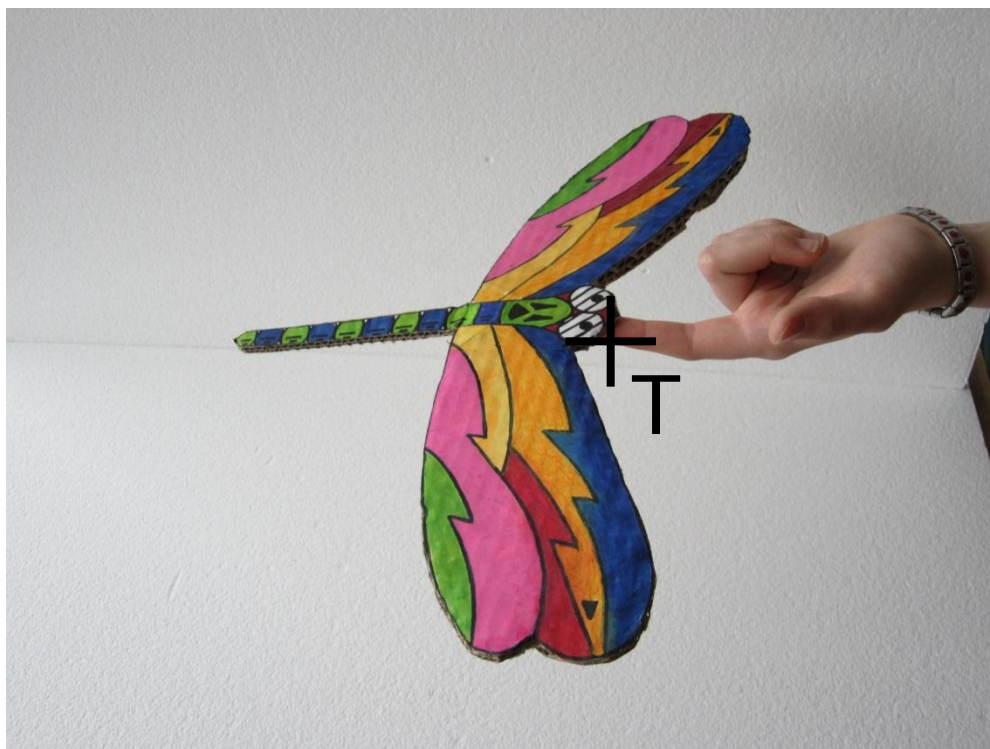


Láhev na provaze



Akrobatické hračky

Vážka



Klaun

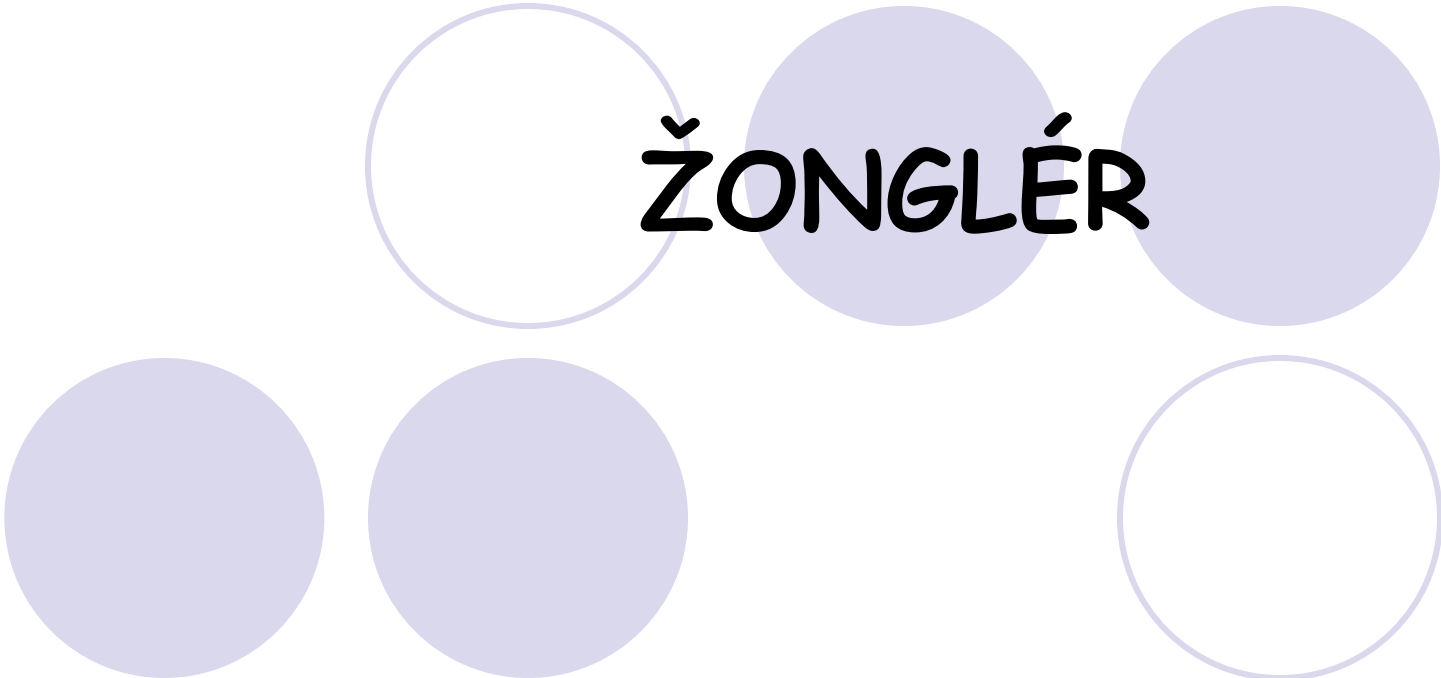


Papoušek



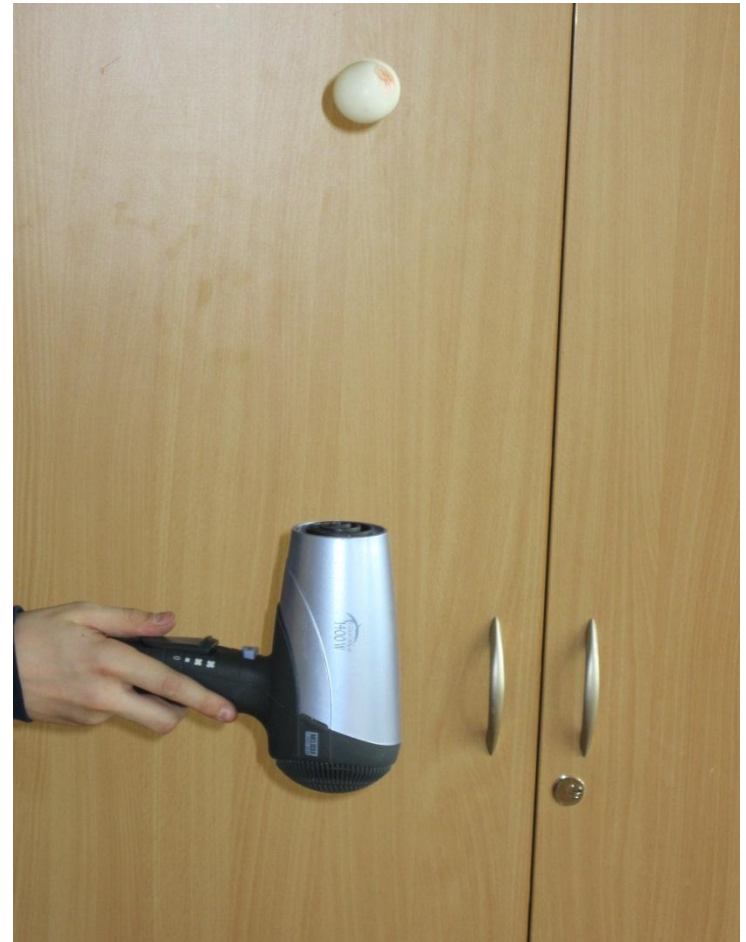
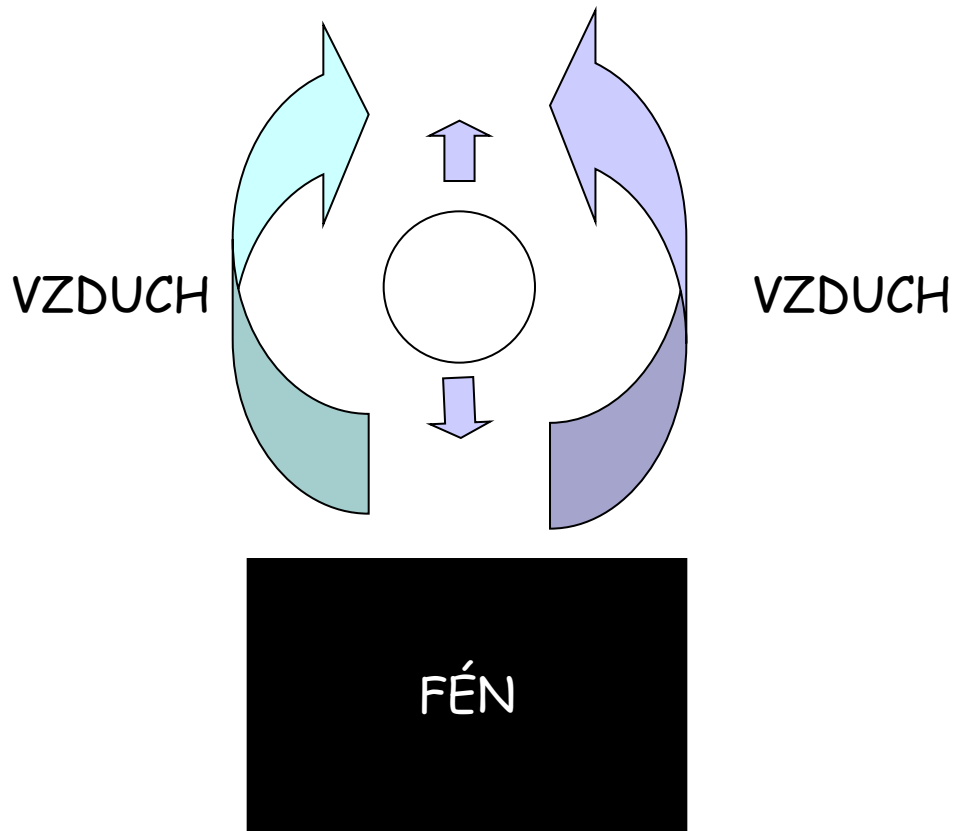
Lezoucí kočka





ŽONGLÉR

Míček nad fénem

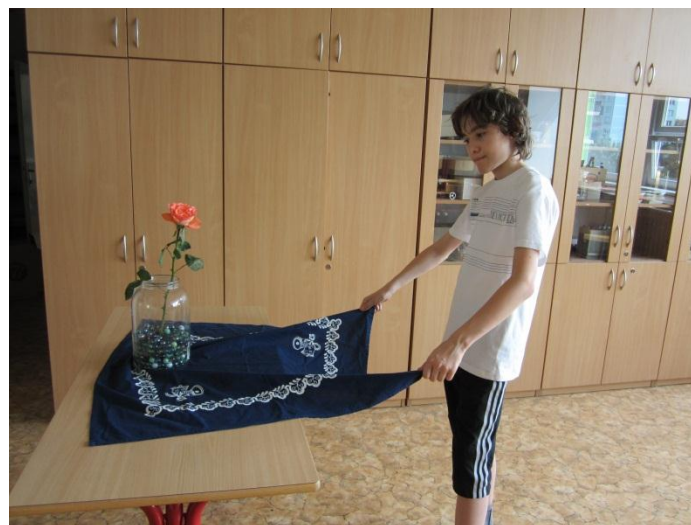


Pokusy se setrvačností

Vytloukání krabic



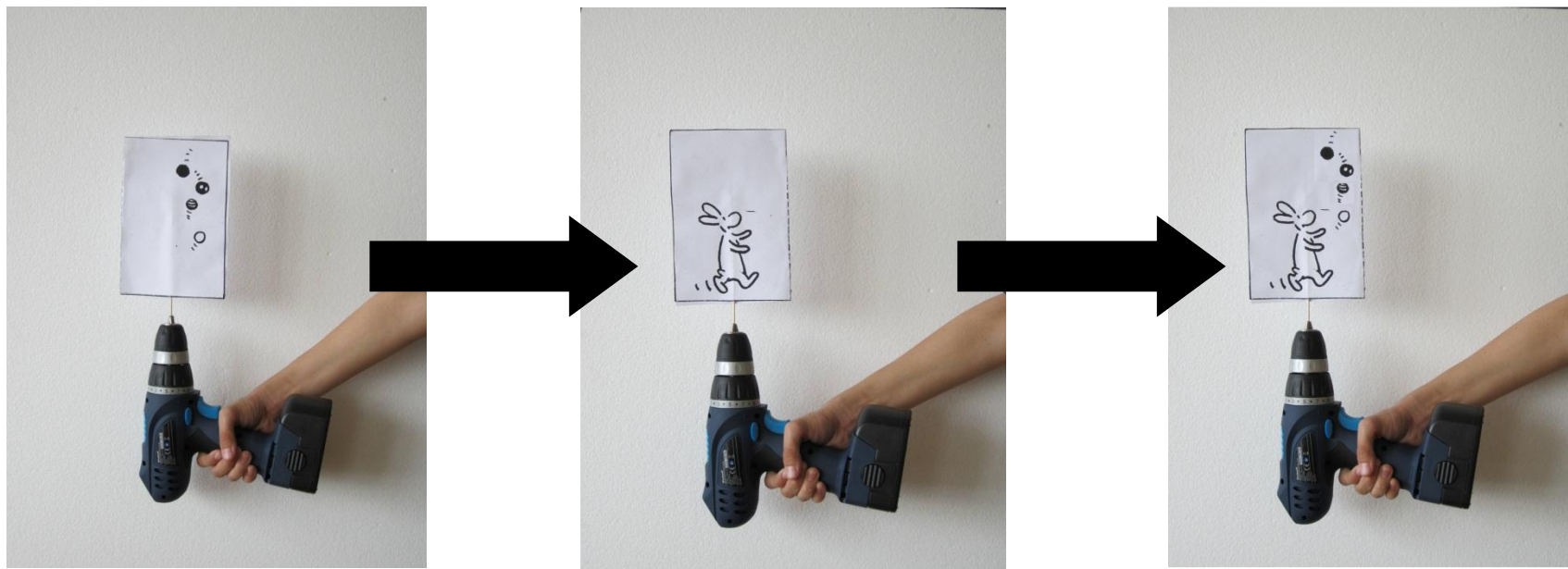
Vytažení ubrusu



Hlavoлам z hřebíků „sedm na jednom“



Vrtačka - oživlé obrázky



Vrtačka - panák



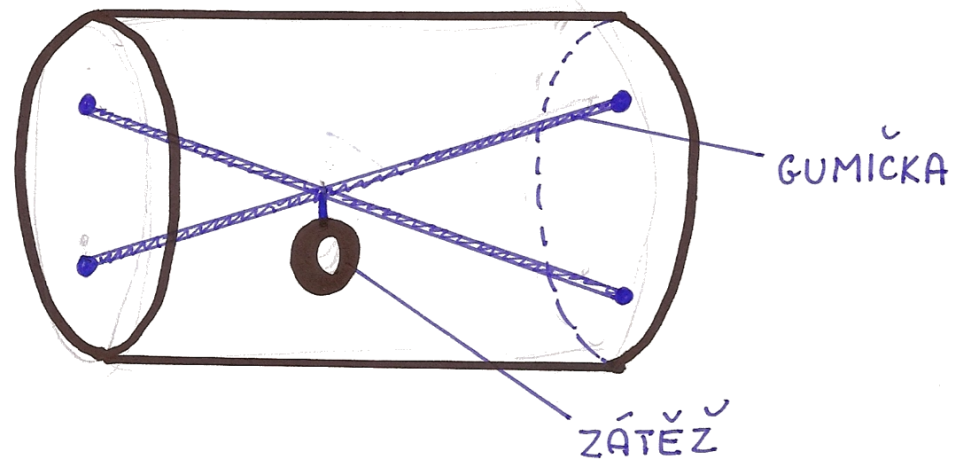
Vrtačka - kruh



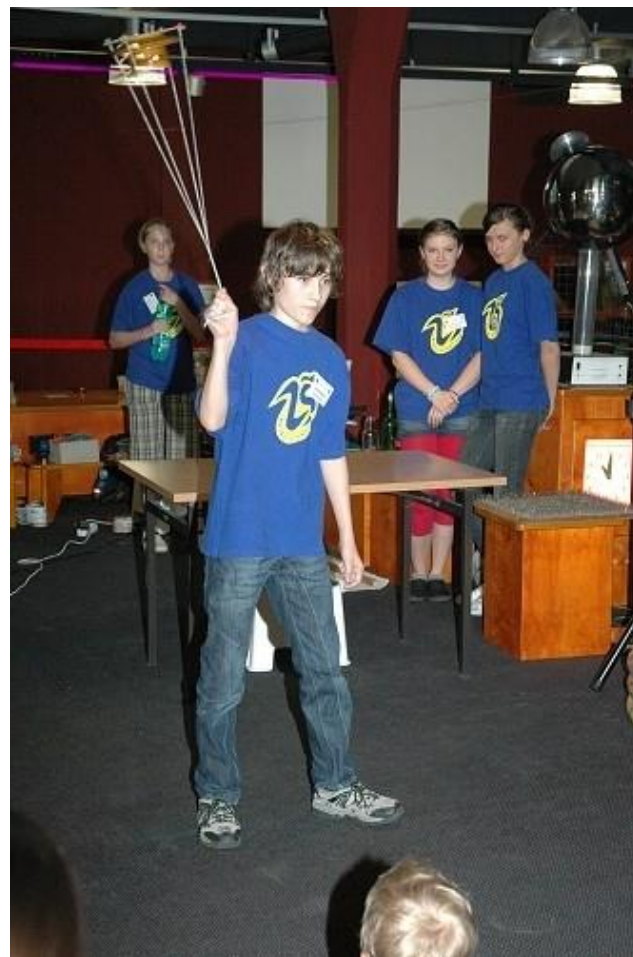
Kruh se postaví do vodorovné polohy, protože rotuje kolem svého těžiště.



Valící se plechovka



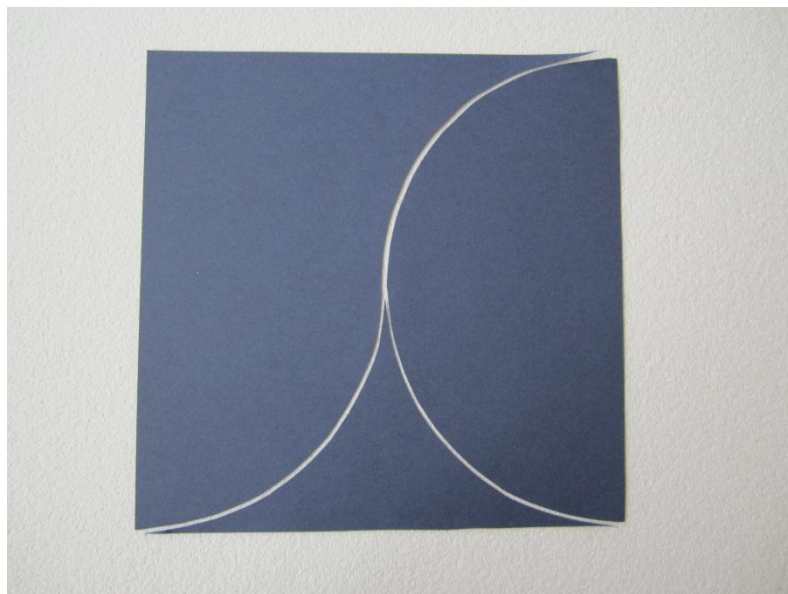
Točička



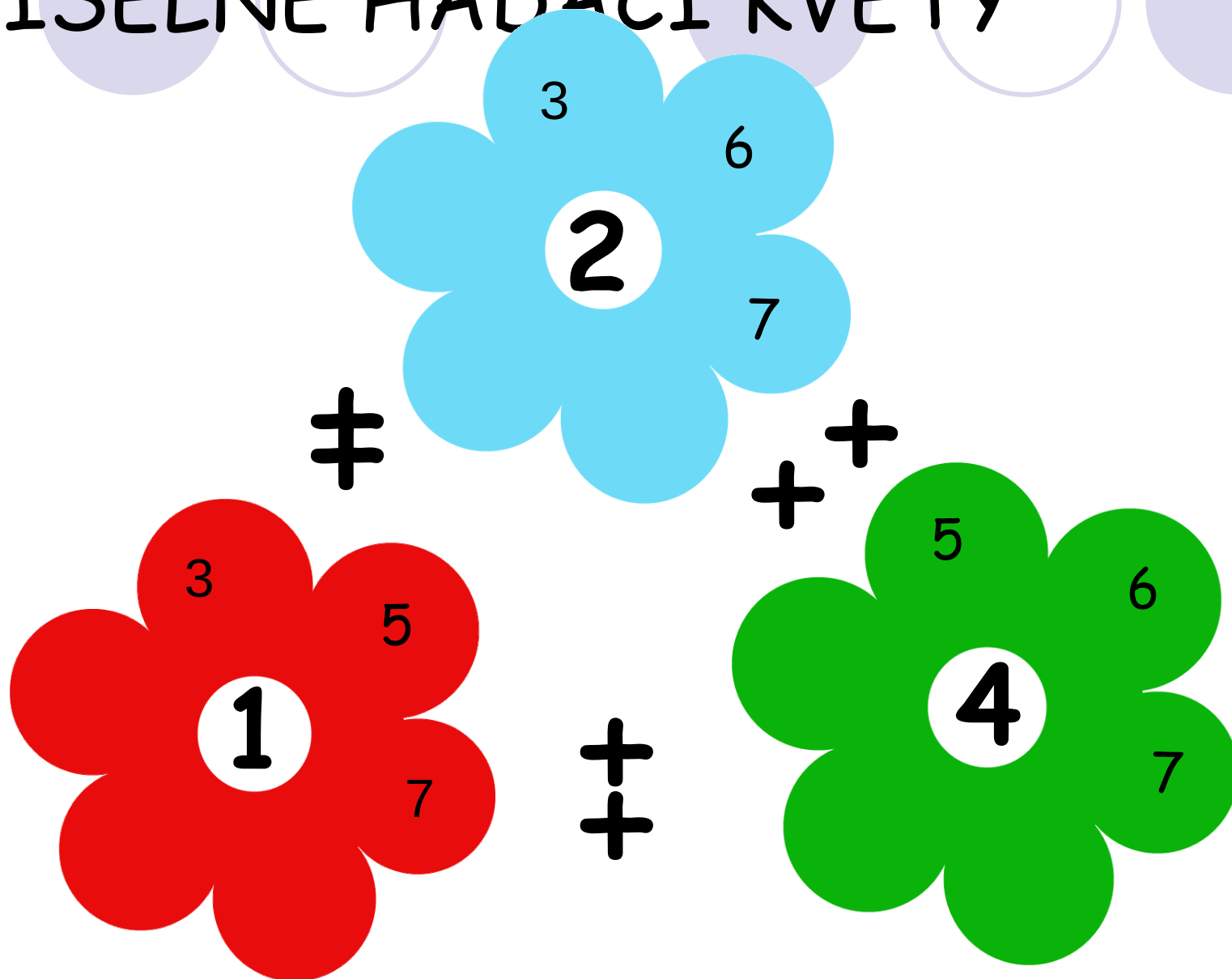
The text is centered and surrounded by six circles of varying shades of purple. Two circles are solid purple, and four are hollow with a thin purple outline. They are arranged in a loose, abstract pattern around the text.

DUO M&G

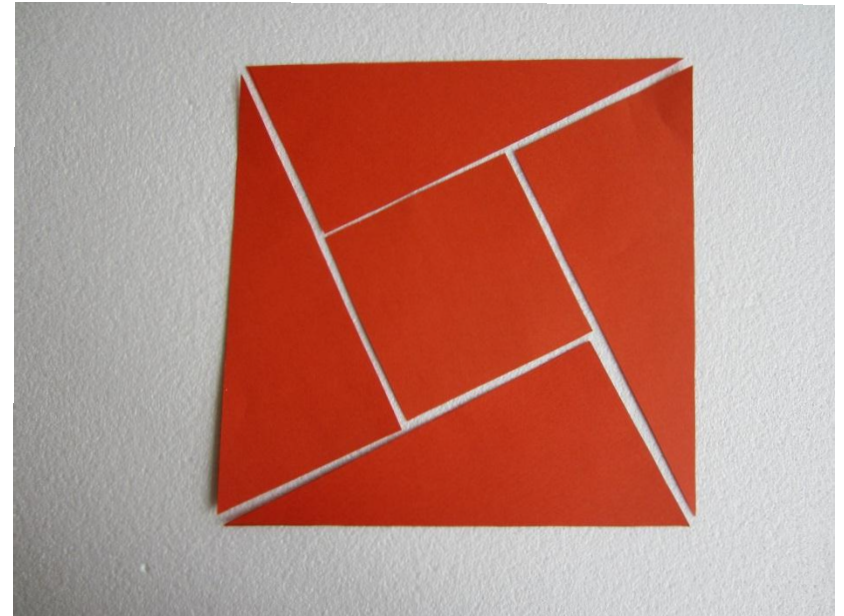
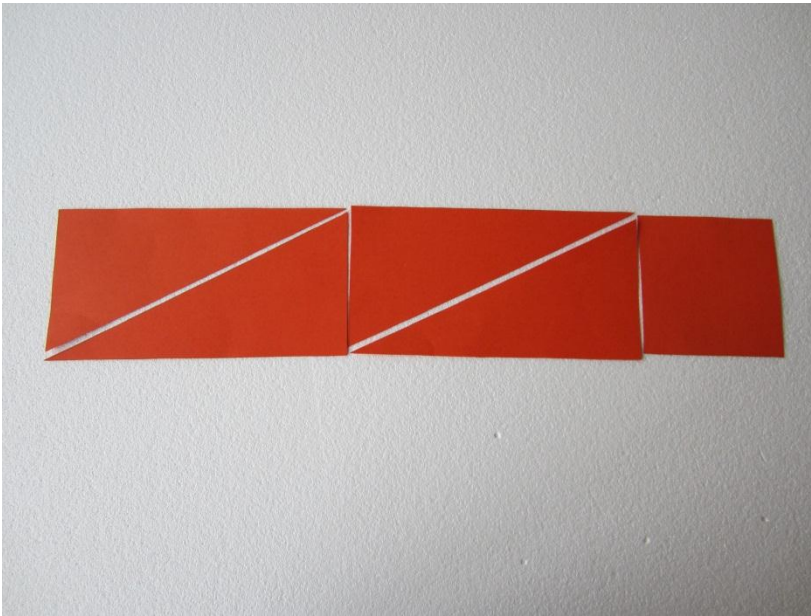
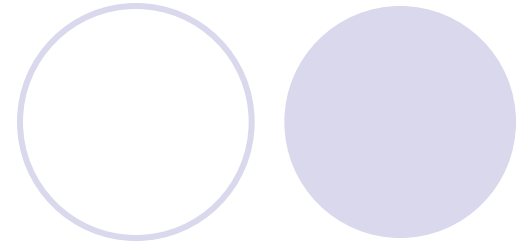
HLAVOLAM „ČTVEREC NEBO VÁZA“



ČÍSELNÉ HÁDACÍ KVĚTY



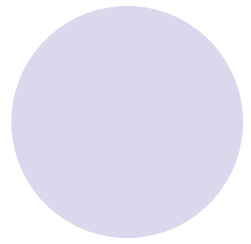
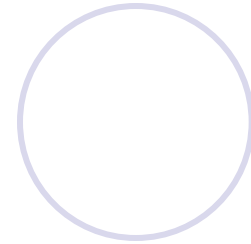
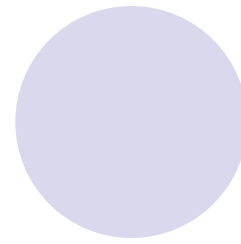
HLAVOLAM „ČTVEREC Z OBDELNÍKU“



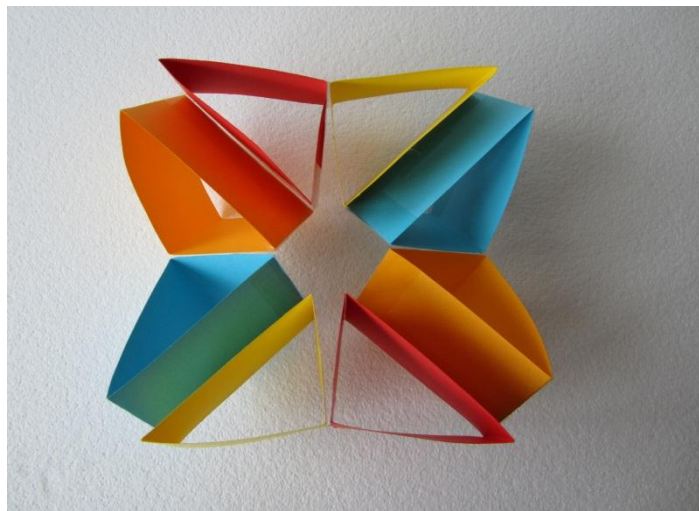
HLAVOLAM „PYRAMIDA“



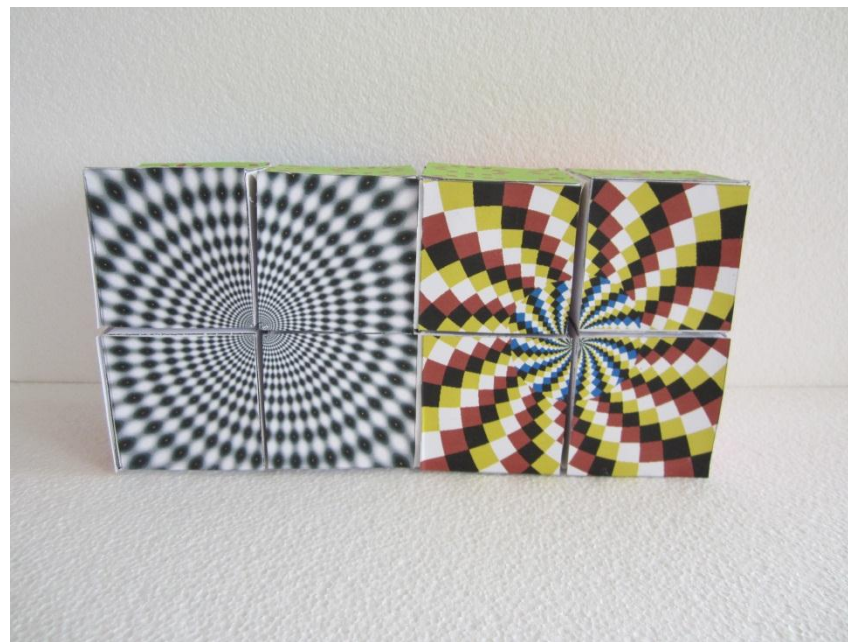
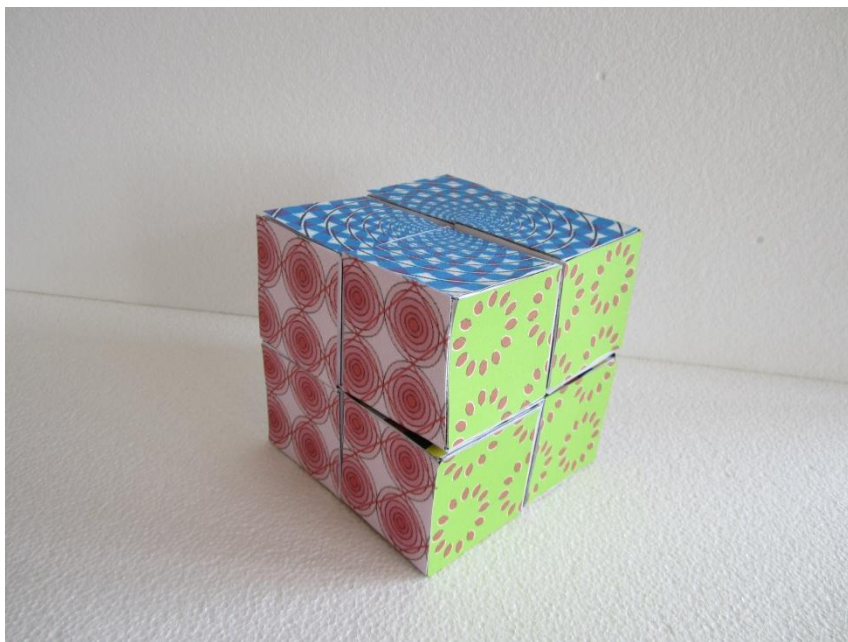
ROZSTŘÍHANÁ 8



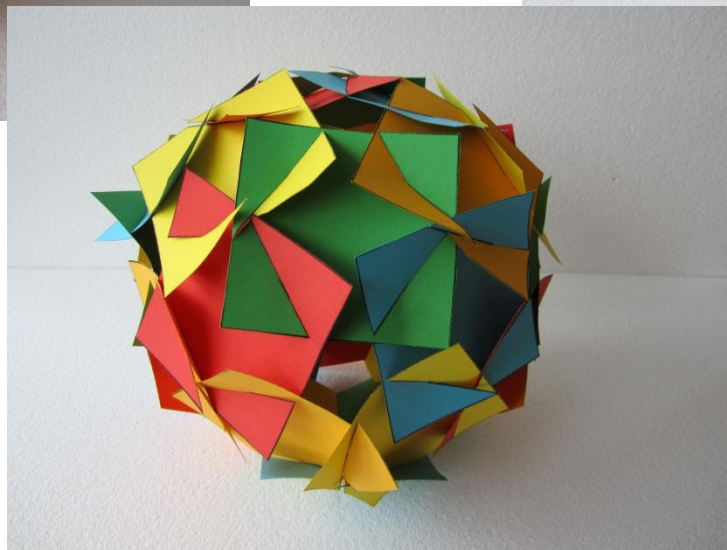
NETRADIČNÍ MODEL HRANOLU



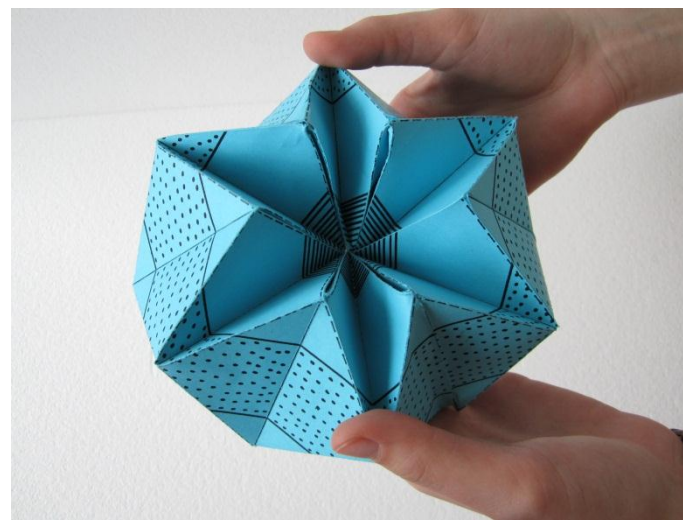
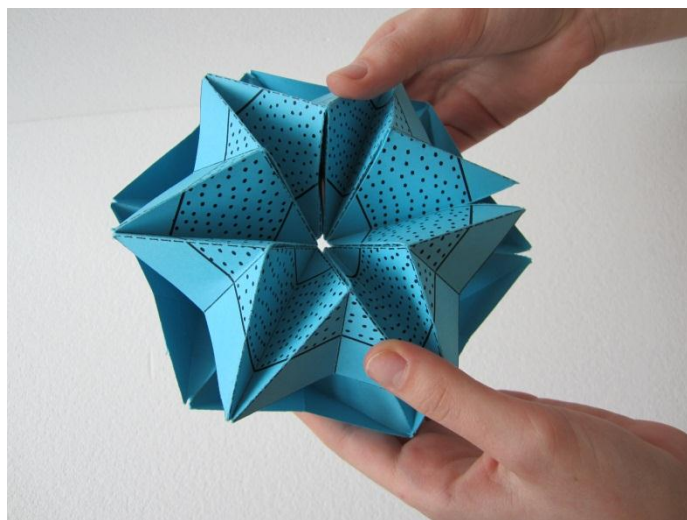
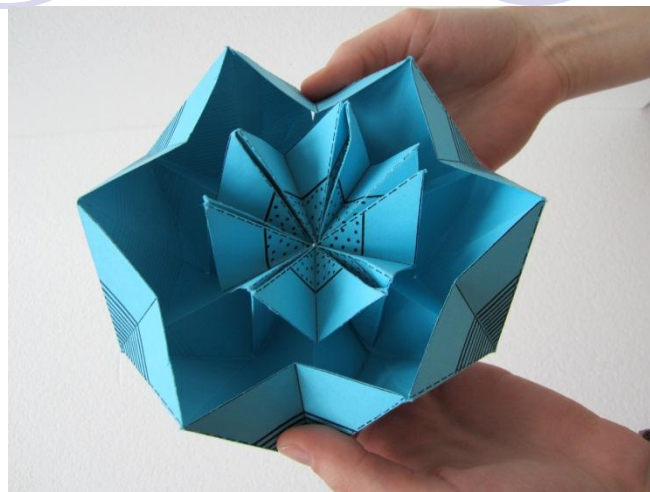
SKLÁDACÍ A ROZKLÁDACÍ KRYCHLE



GEOMETRICKÁ PAPIŘOVÁ KONSTRUKCE ZE ČTVERCE

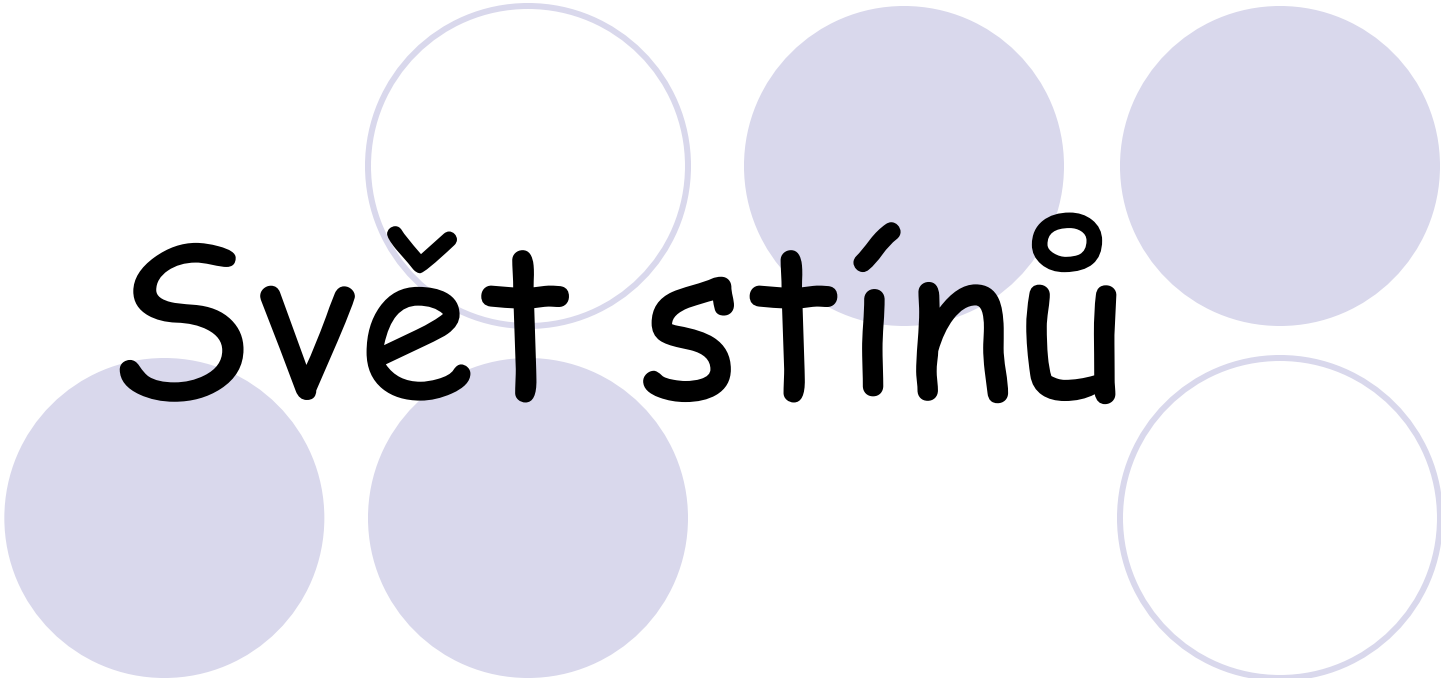


MNOHOSTĚNNÝ KVĚT

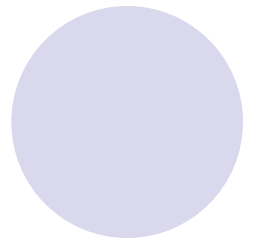
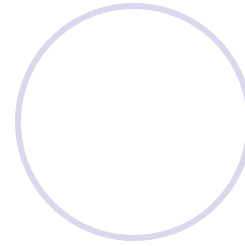
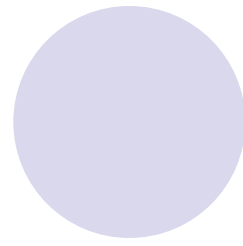
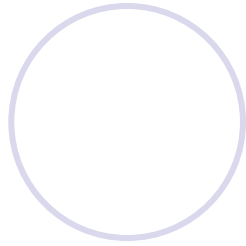
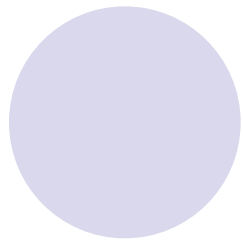


DVACETIŠŤĚN Z CD



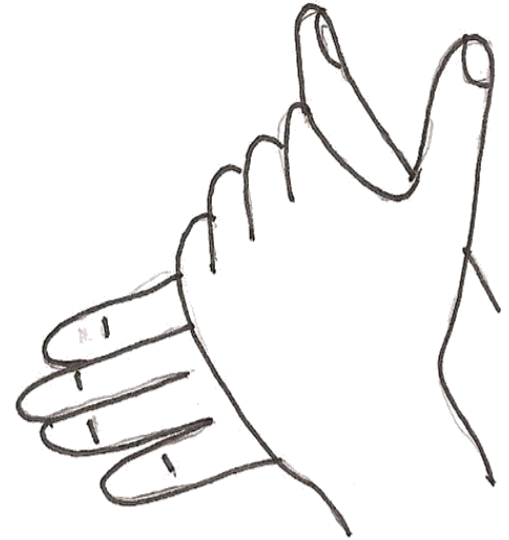
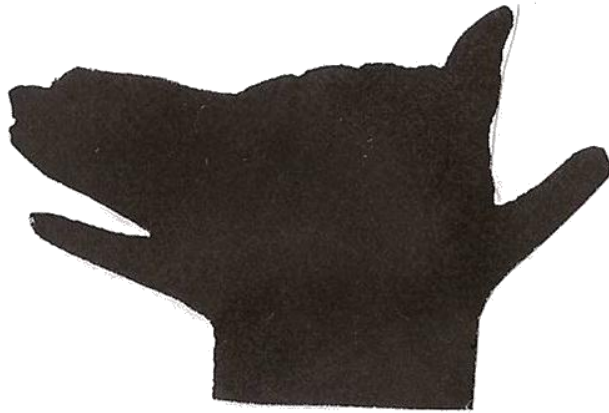
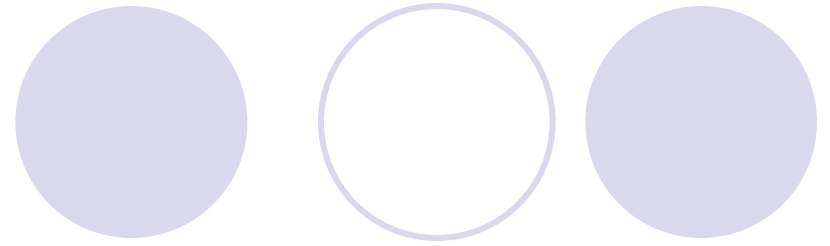
The text is centered and surrounded by five circles of varying shades of purple and lavender. Two circles are solid, and three are outlined. They are arranged in a loose, abstract pattern around the text.

Svět stínů

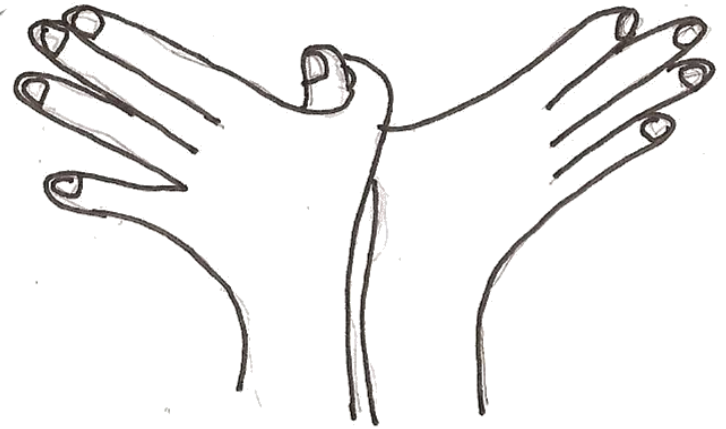
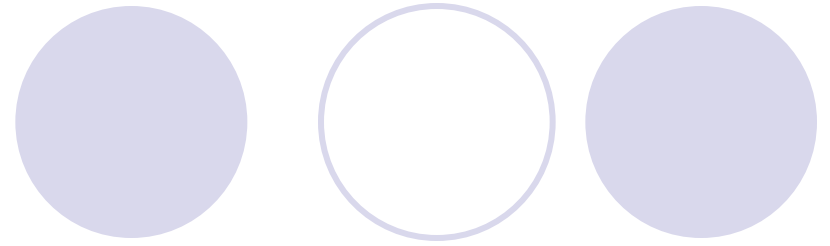


Světlo se šíří přímočaře,
proto za neprůhledným
tělesem vzniká místo kam
světlo nedopadne - stín

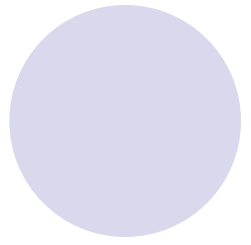
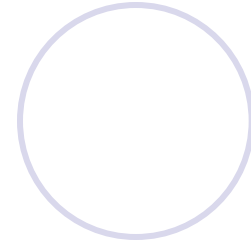
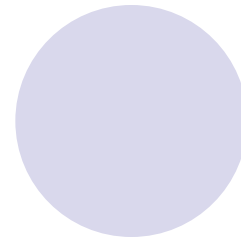
Pes



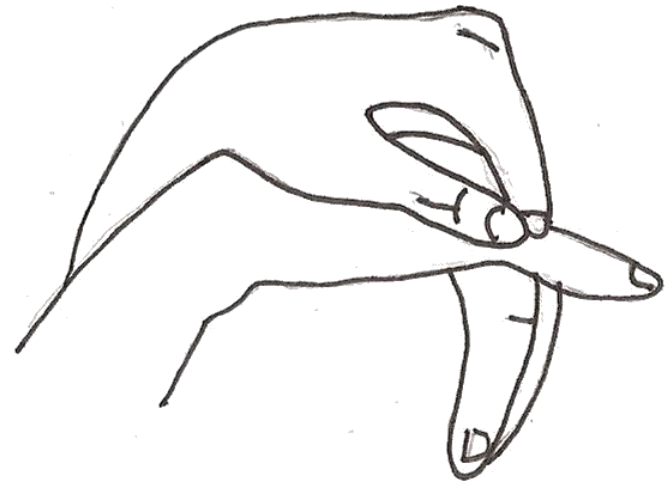
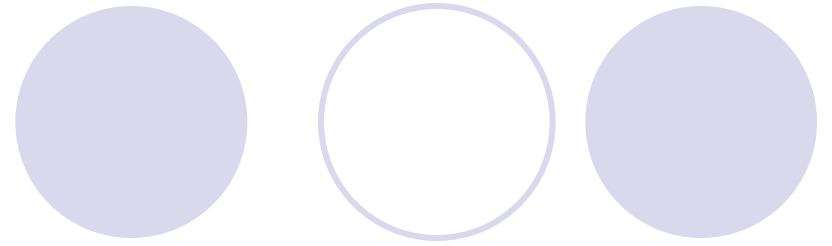
Orel



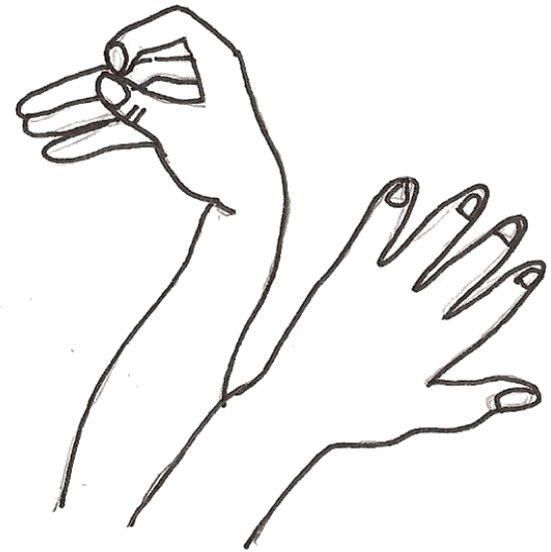
Kachna



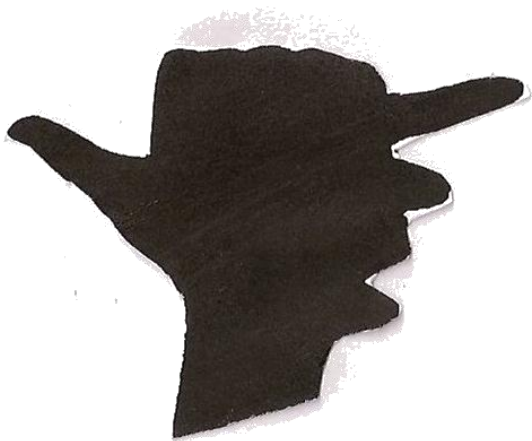
Slon



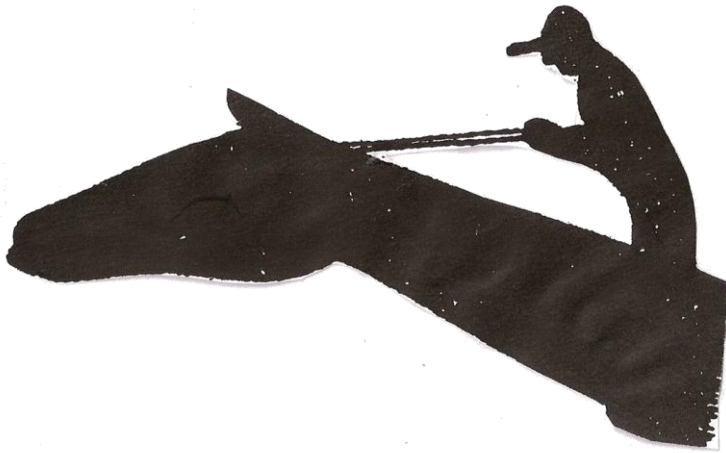
Labut'



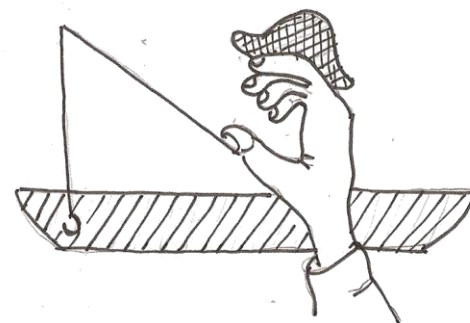
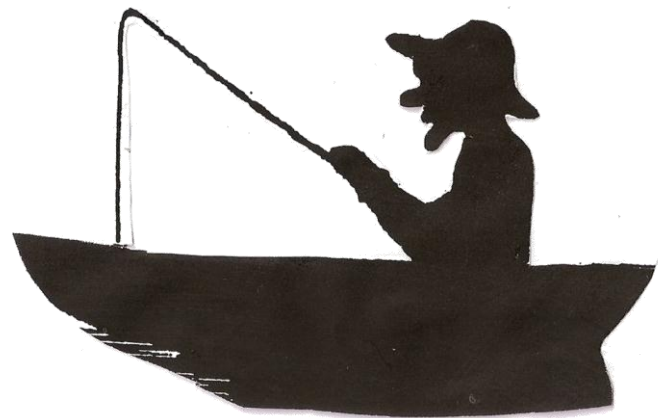
Pán

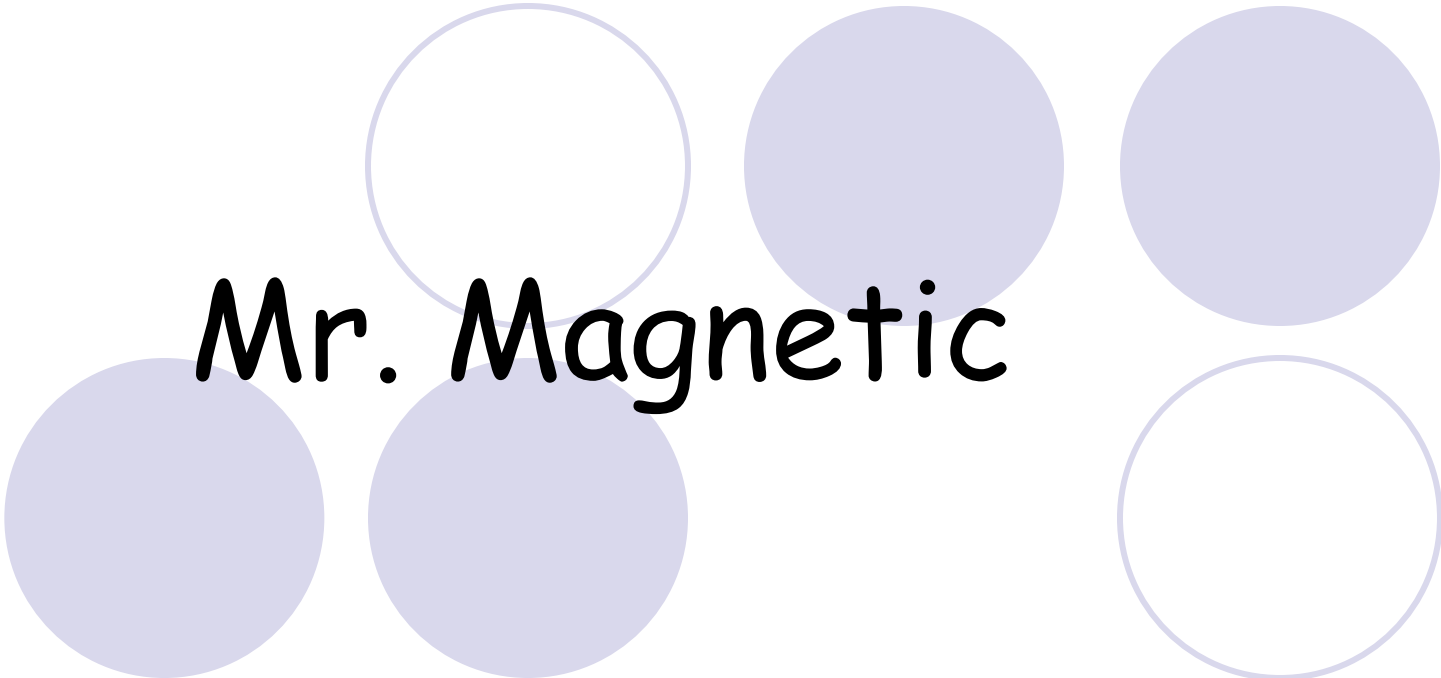


Jezdec na koni



Rybář na lodi



The text is centered and surrounded by six light purple circles. Three circles are in the top row, and three are in the bottom row. The top-left and bottom-right circles are empty outlines, while the other four circles are solid.

Mr. Magnetic

Magnetické sochařství

Pomůcky:

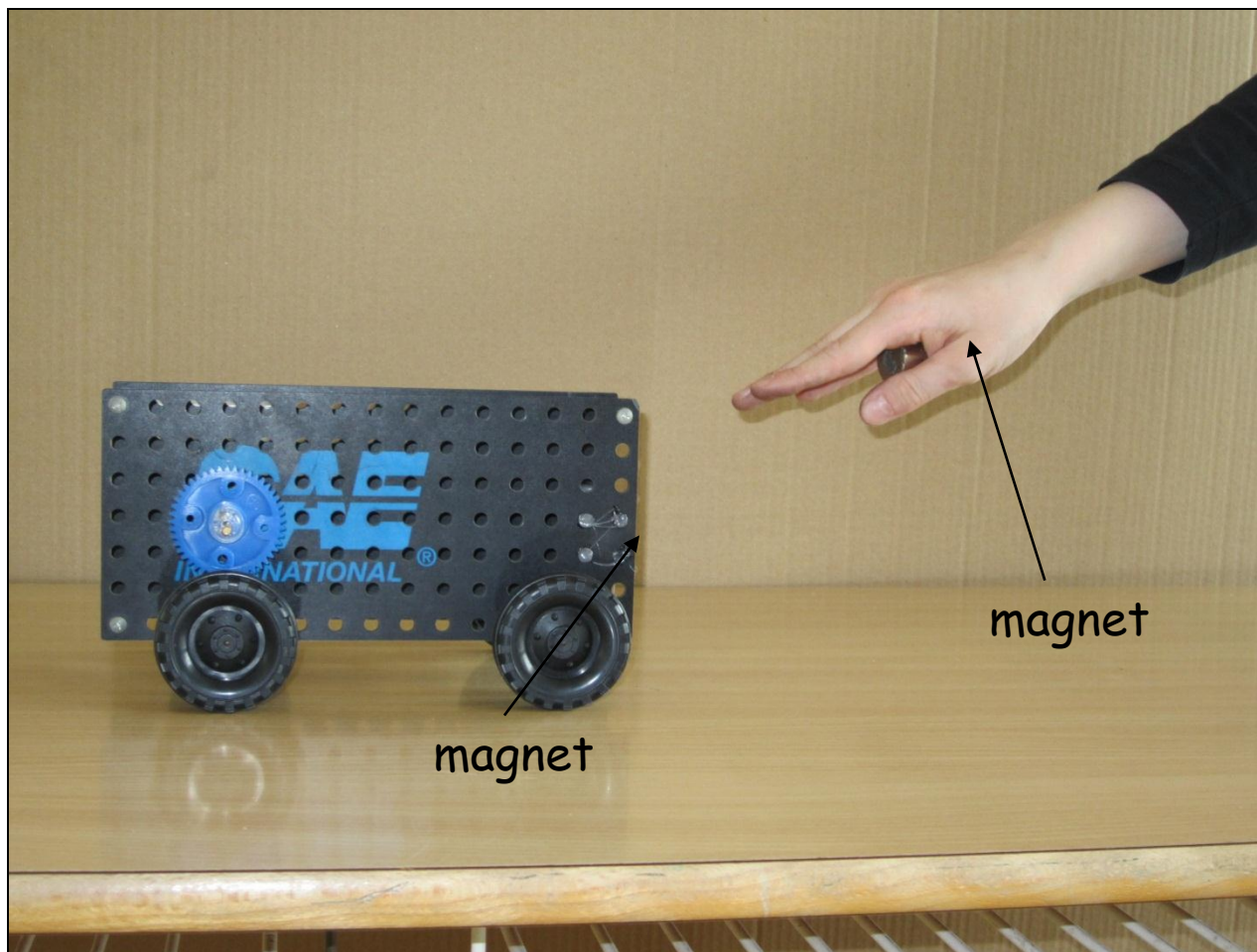
- Podkovovitý magnet
- Různá tělesa z feromagnetické látky



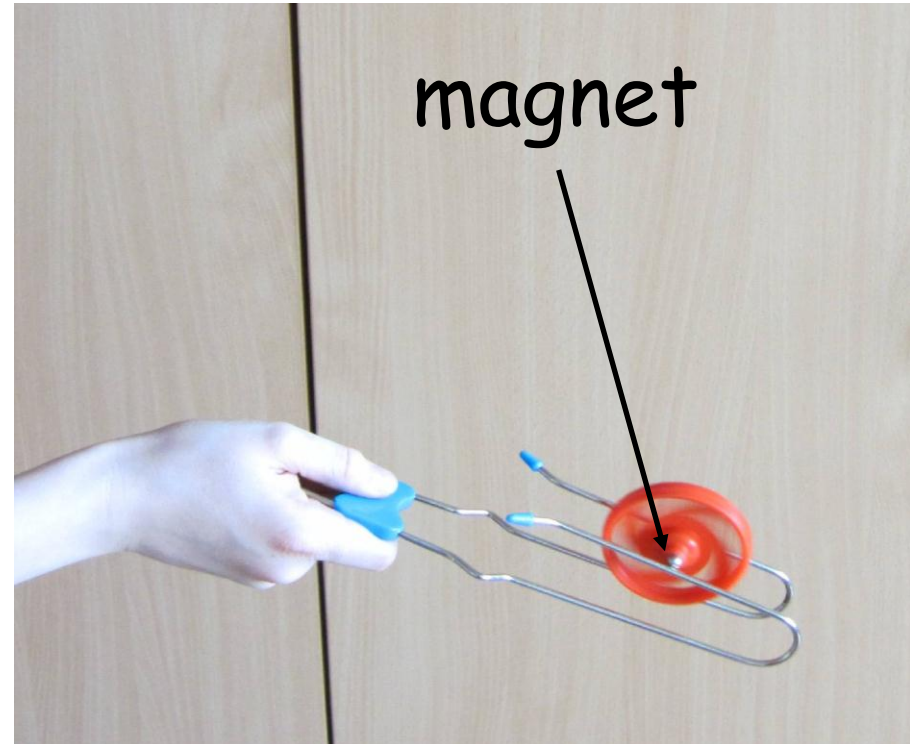
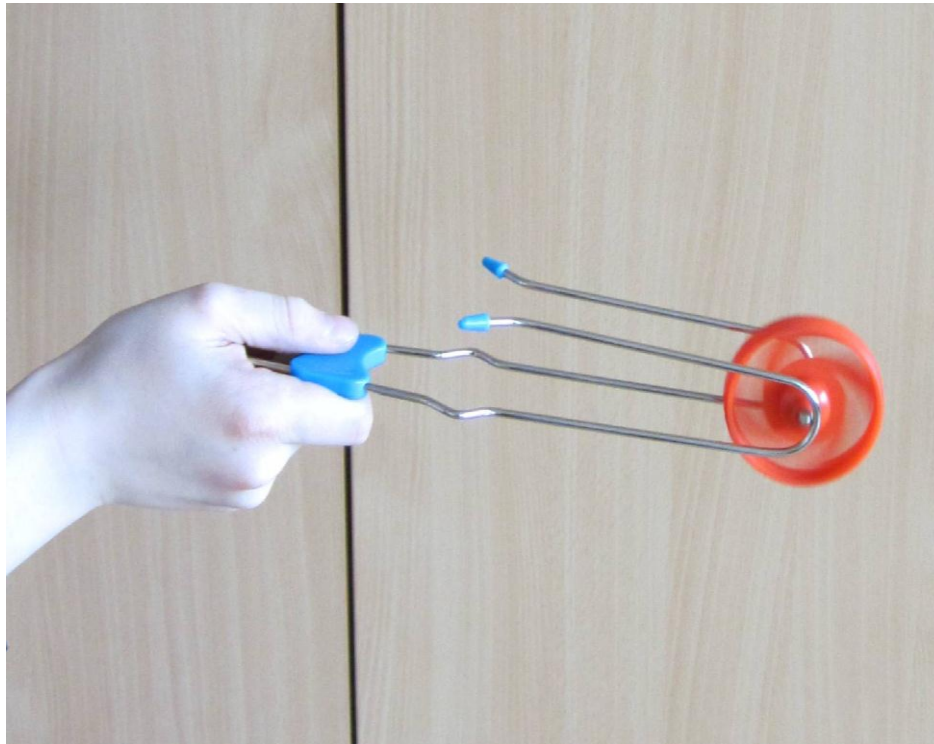
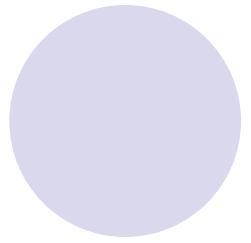
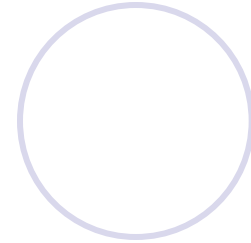
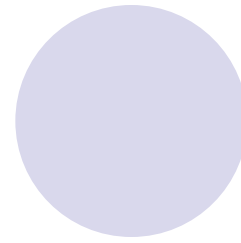
Hřebíčková plastelína



Auto na magnetický pohon



Magnetické jo-jo



Magnetická palička

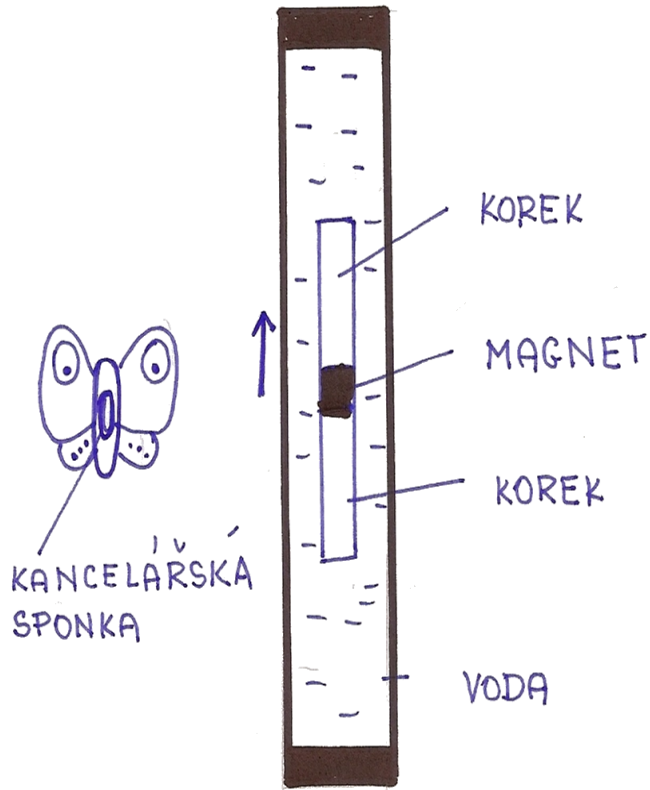


Palička s 1 kruhem

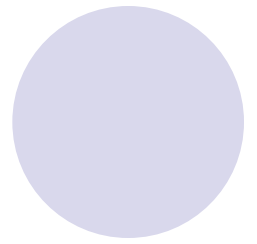
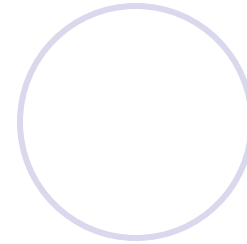
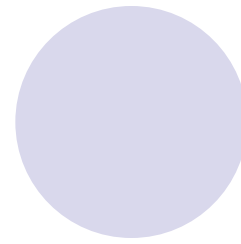
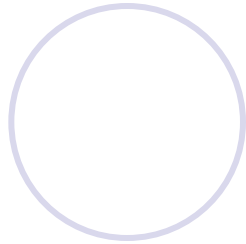
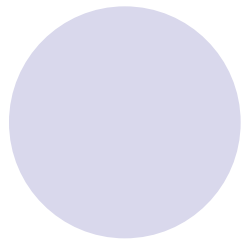


Palička se 2 kruhy

Létající motýl na tyči

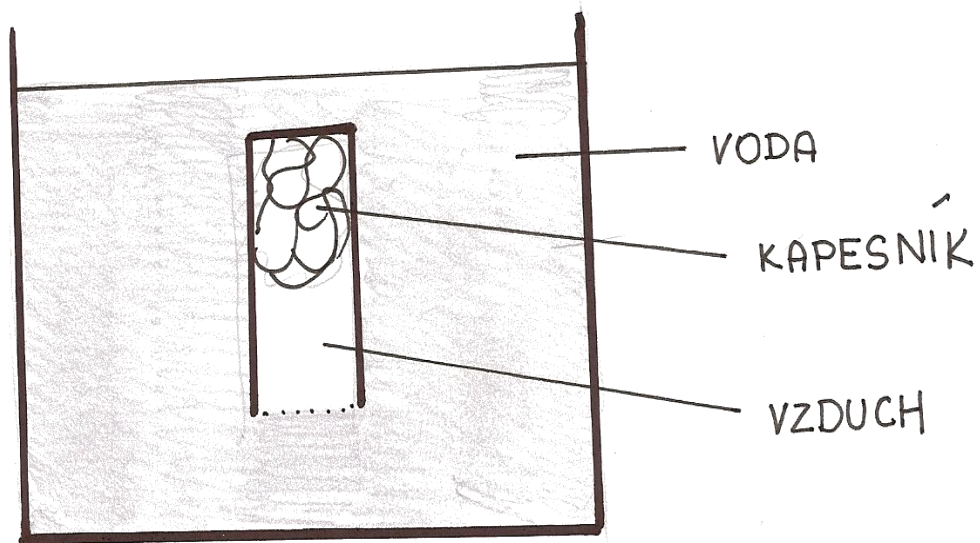


- Motýl je kancelářskou sponkou přidělaný nadutou tyč, která je naplněna vodou.
- Ve vodě jsou dva korky a mezi nimi je magnet.
- Když otočíme trubku vzhůru nohama tak korky i s magnetem jdou vzhůru a motýl s nimi.



Kouzelníci

Kapesník se nenamočí

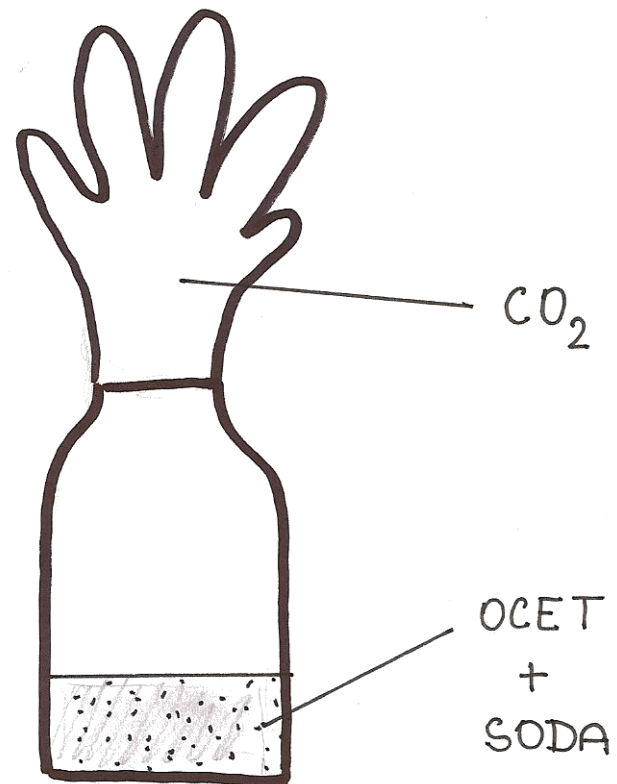


Kapesník neshoří

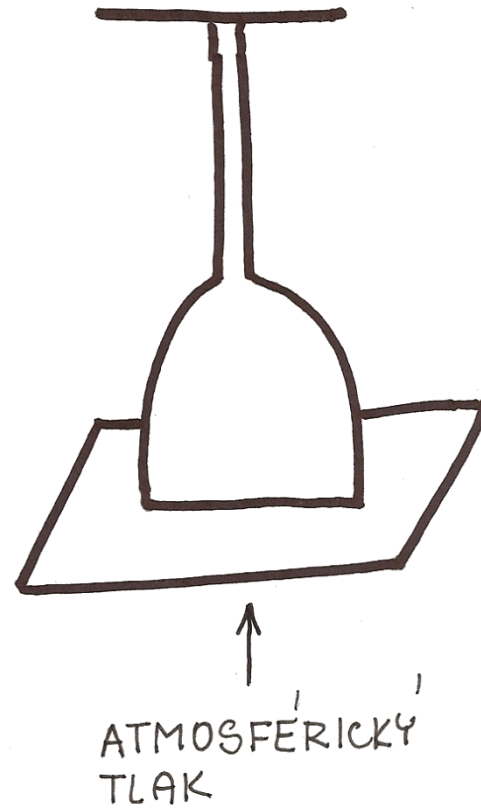


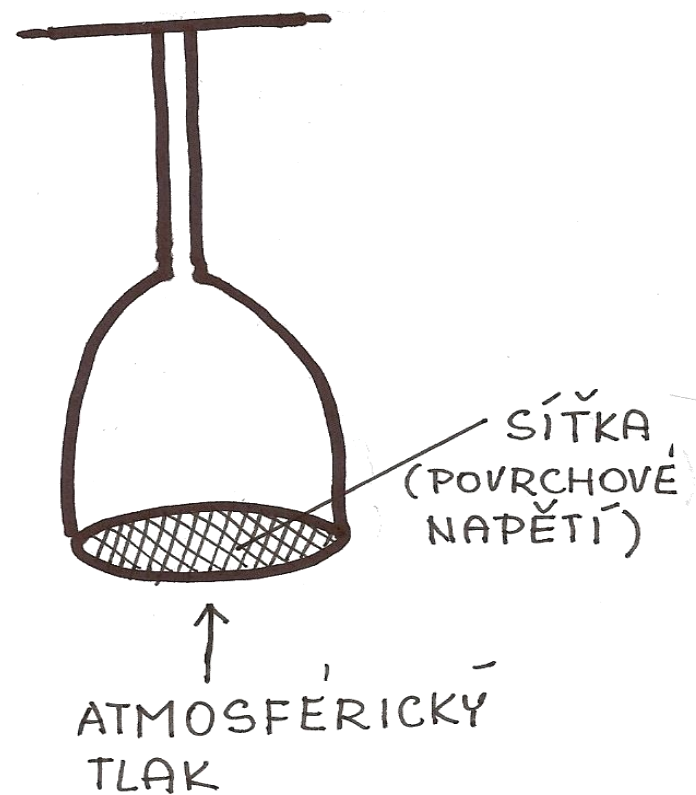
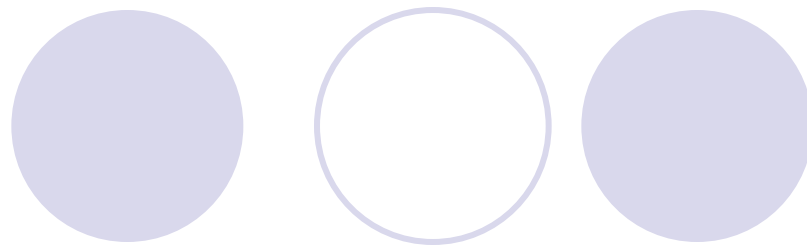
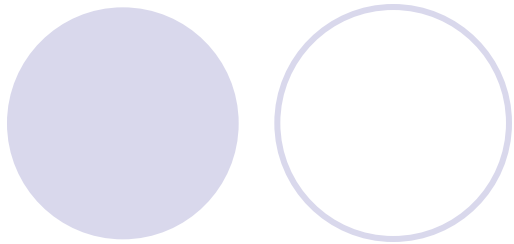
- Kapesník je namočen v roztoku líh : voda=1:1
- Líh hoří
- Teplo se spotřebuje na vypařování vody

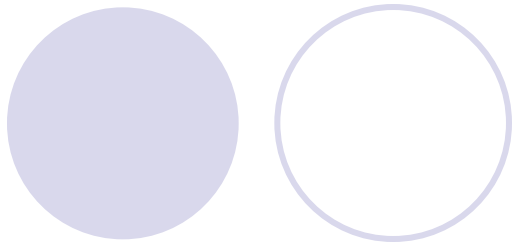
Netradiční nafouknutí rukavice



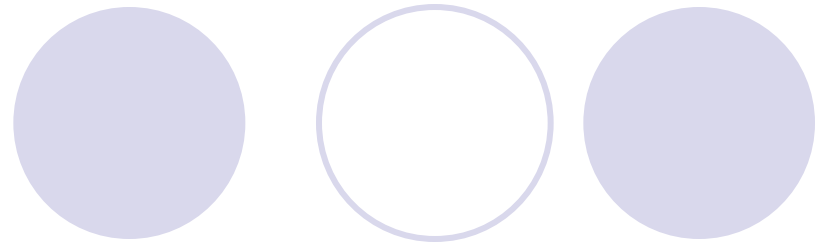
Voda a víno





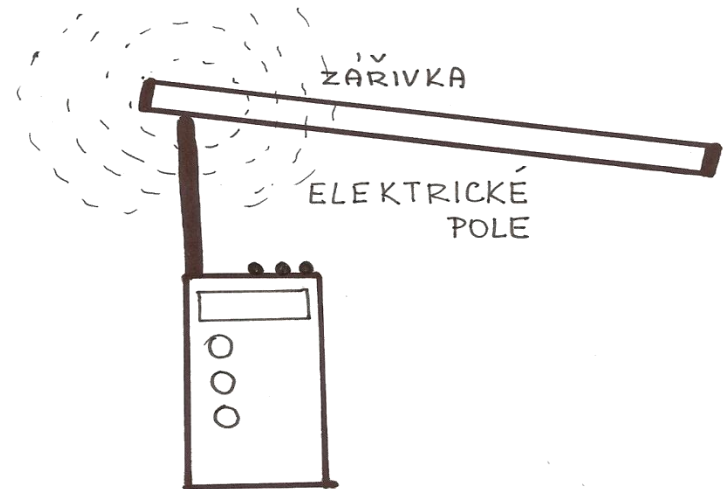


Víno má menší hustotu



Víno stoupá nahoru

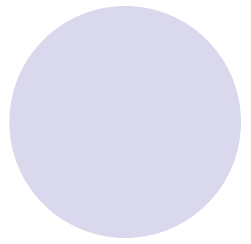
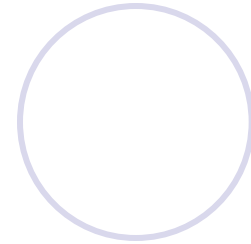
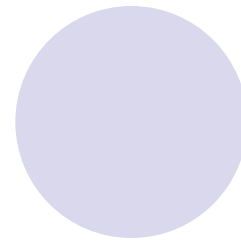
Vysílačka rozsvítí žárovku



Fakírova židle a heronův řetěz



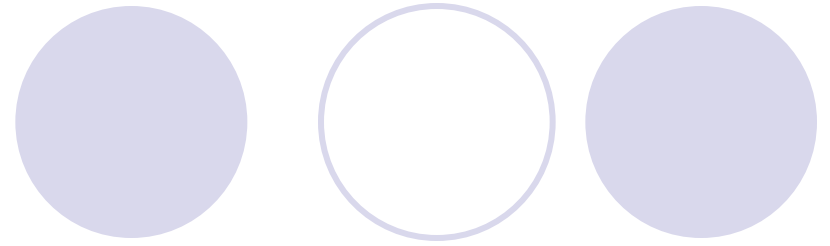
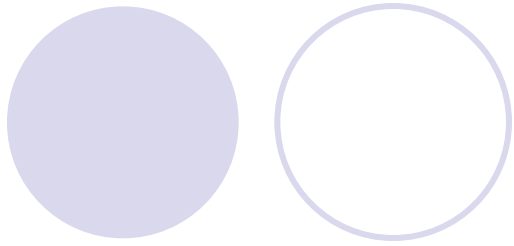
Pohyblivé obrázky



Kouzelné hůlky



- Nabitý konec hůlky odpuzuje kroužek z fólie, který předtím hůlka nabíla





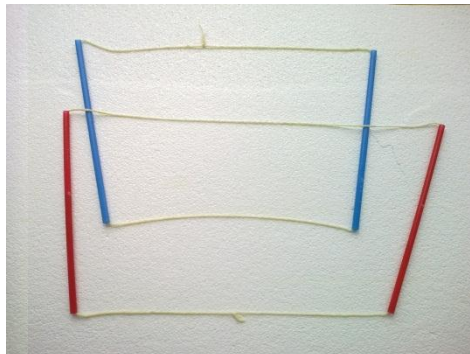
Hrátky s bublinami

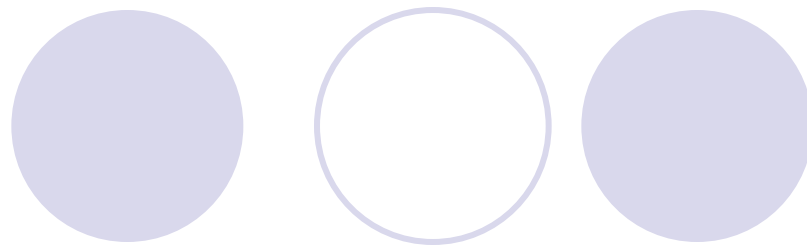
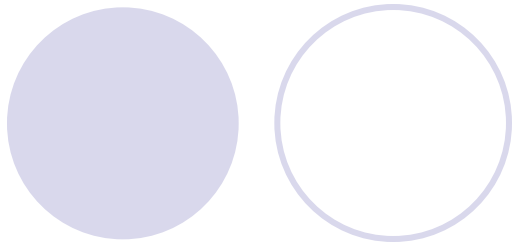
Recept na velké bubliny

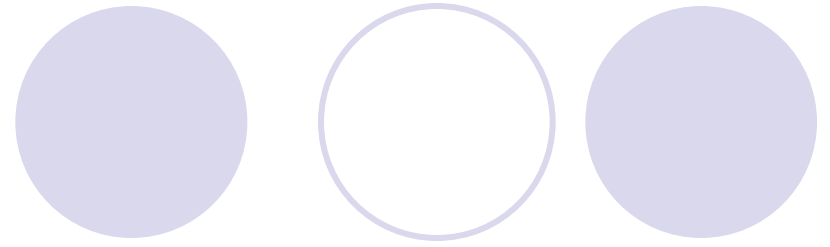
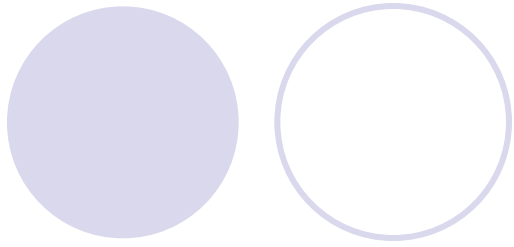
- Na bubliny v našem vystoupení používáme roztok
- 12 hrníčků vody (převařené, destilované, dešťové)
- 1 hrníček jaru
- 1 hrníček kukuřičného škrobu „Gustin“
- 2 polévkové lžíce kypřicího prášku
- 1 hrníček = 250ml
- Tento recept je bez glycerinu, snadno se uklízí

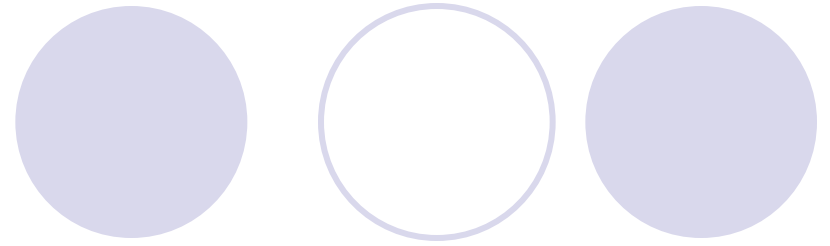
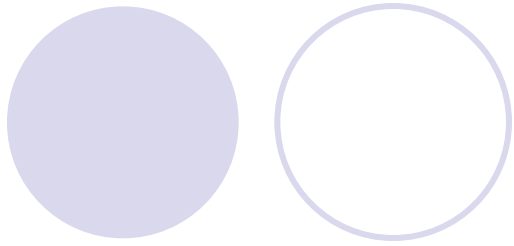
Pomůcky

- Pomůcky jsou vytvořeny z drátu, provázku, brček nebo z PET láhve
- Při tvorbě bublin nám pomáhá povrchové napětí a proudění vzduchu. Slabá membrána z bublinového roztoku se snaží zaujmout energeticky nejúspornější tvar s minimální plochou - kouli. Efektivním jevem je barevnost bublin, která vzniká odrazem a interferencí světla na mýdlové vrstvě.











Ředitel cirkusu::
Akrobaté:

Žonglér:
Matematici:

Mr. Magnetic:
Stínohra:

Kouzelníci:

Hrátky s bublinami:

Účinkovali

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Pod vedením

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Děkujeme za vaši pozornost!