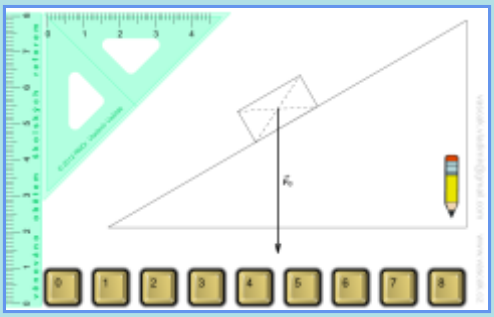
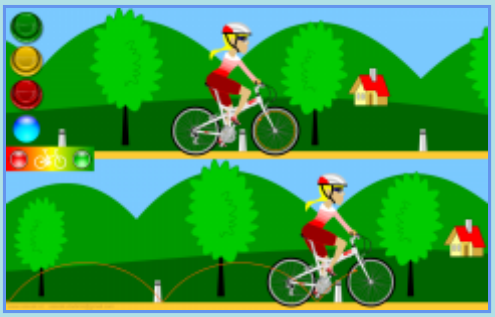
Fyzika ve škole

Mechanika

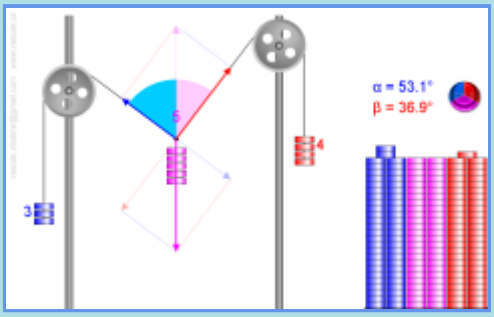
Nakloněná rovina



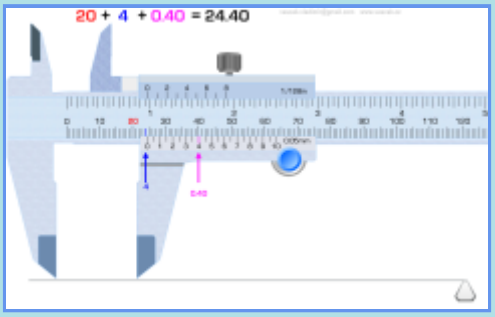
Vztažná soustava



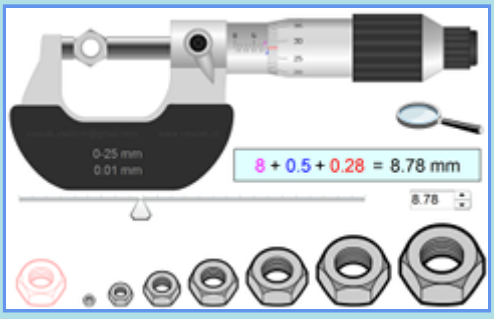
Rovnoběžník sil



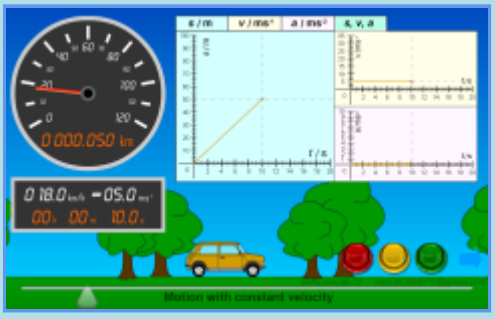
Posuvné měřítko



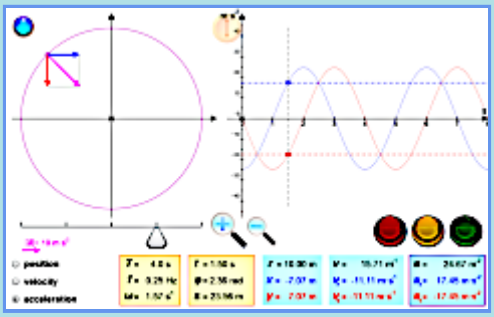
Mikrometr



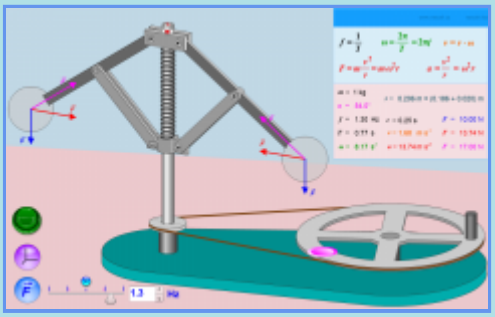
Pohyb



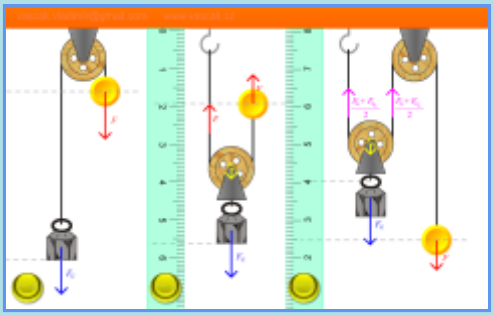
Rovnoměrný pohyb po kružn...



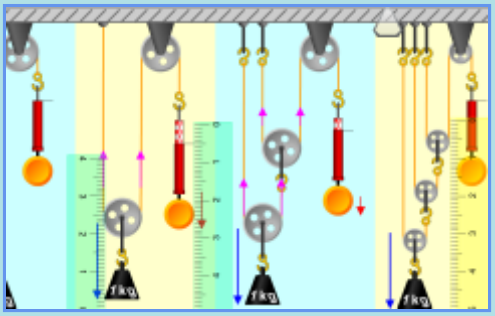
Wattův odstředivý regulát...



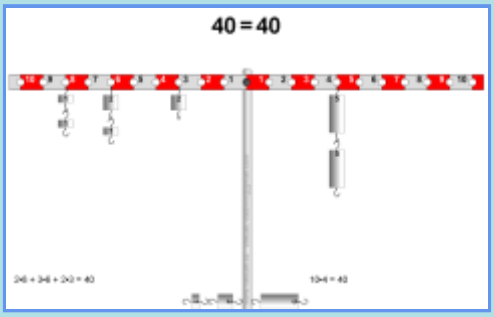
Kladka pevná a volná



Kladkostroj



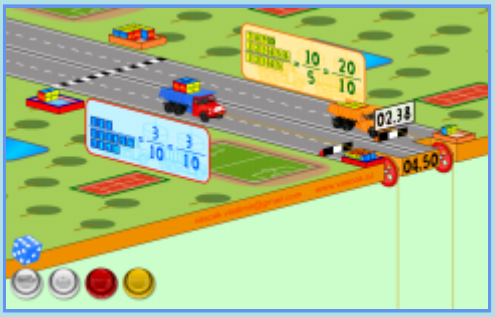
Rovnováha na páce



1. Newtonův pohybový záko...

2. Newtonův pohybový záko...

2. Newtonův pohybový záko...



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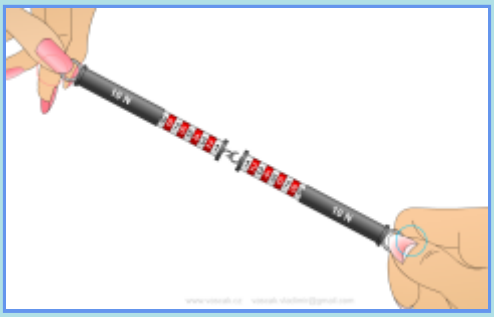
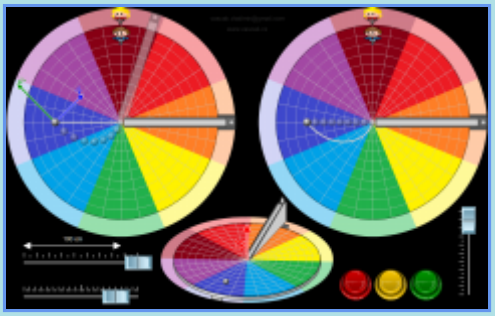


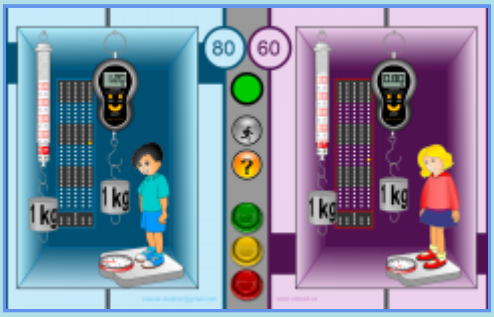
Setrvačná síla

Setrvačná odstředivá síla

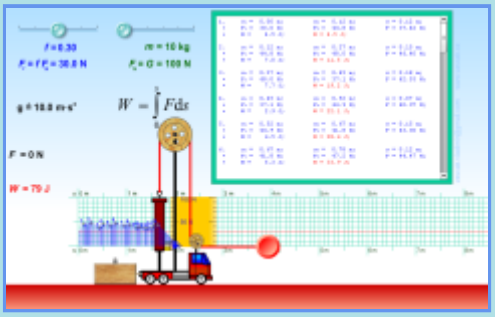
Coriolisova síla



Výtah

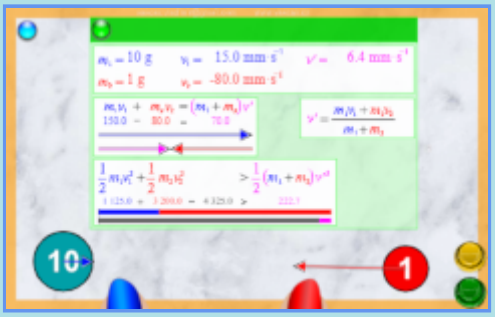


Mechanická práce

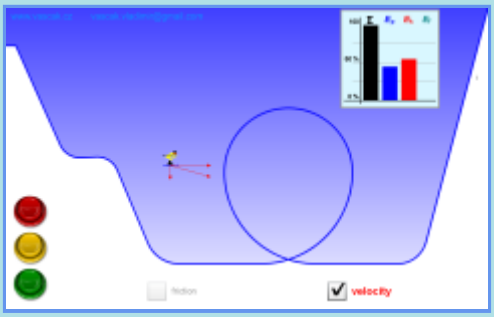


Pružná srážka

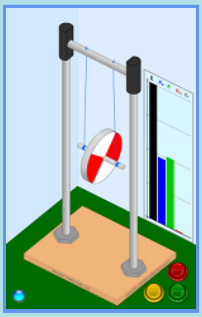
Nepružná srážka



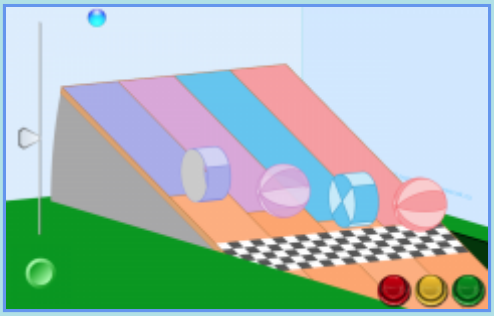
Zákon zachování energie



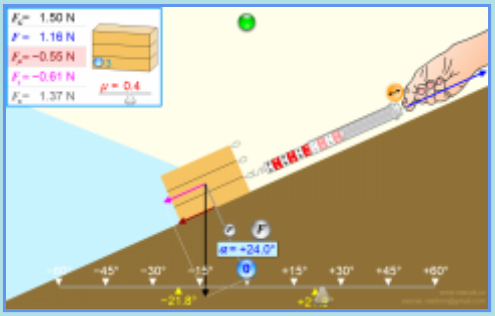
Maxwellovo kyvadlo



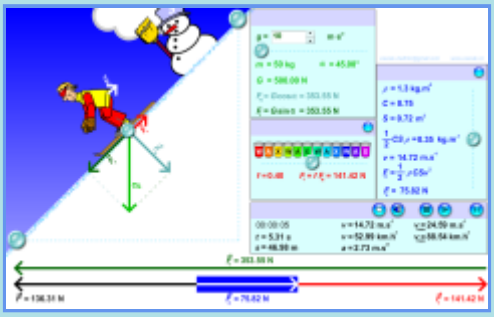
Moment setrvačnosti



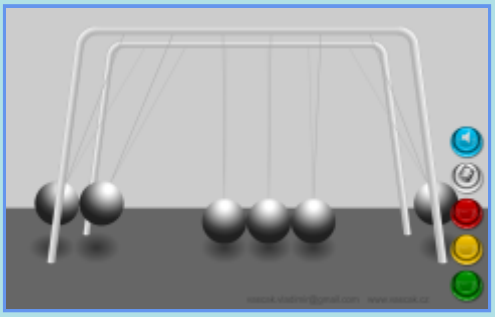
Tření



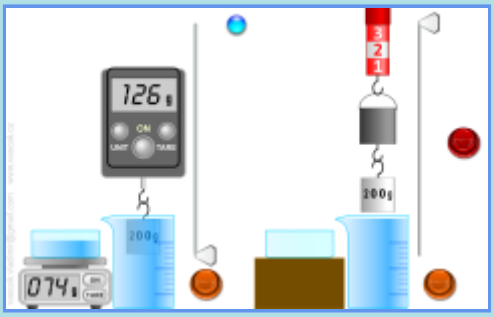
Tření a odpor vzduchu



Newtonova houpačka

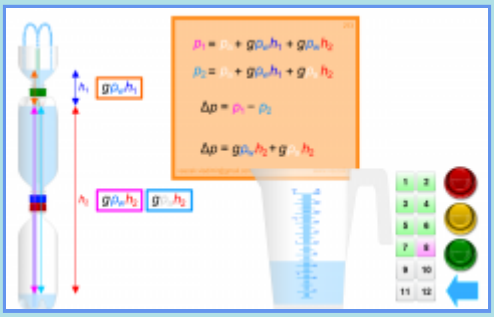


Archimédův zákon

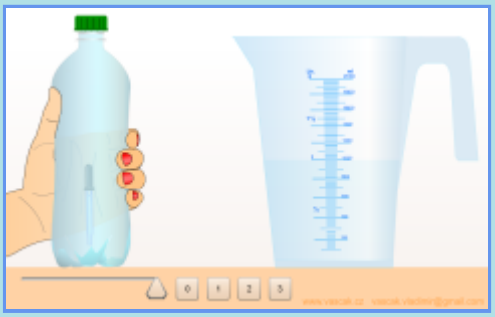


Hydrostatický tlak

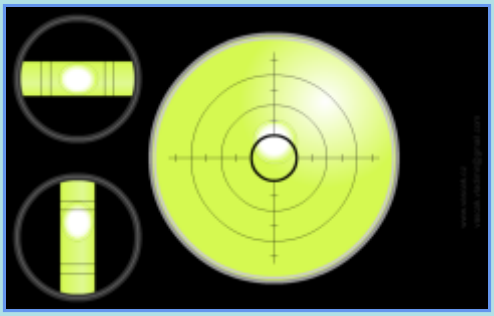
Heronova fontána



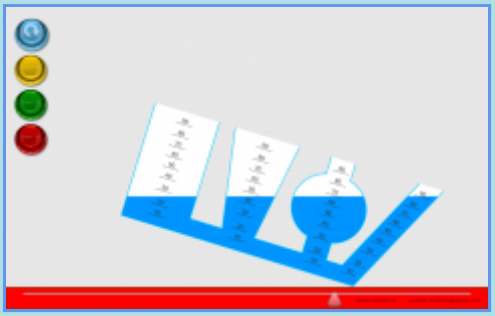
Kartoziánek



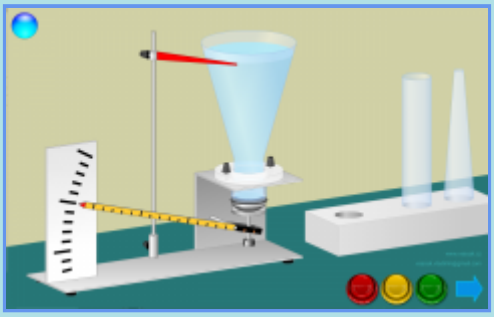
Vodováha



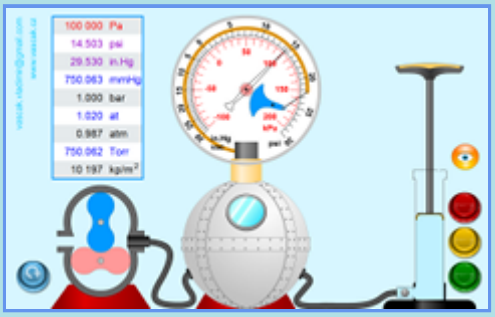
Spojené nádoby



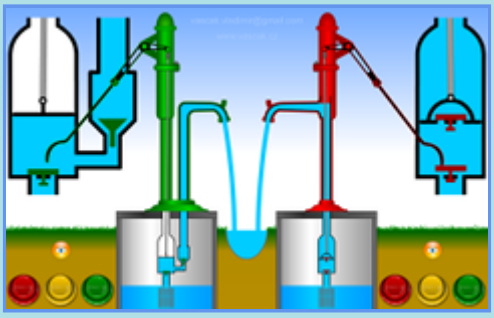
Hydrostatické paradoxon



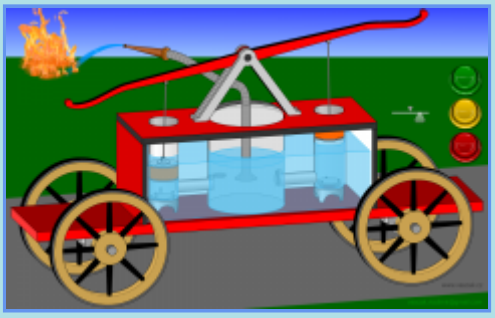
Tlak



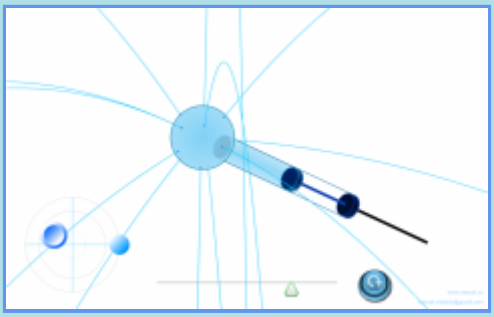
Pumpa



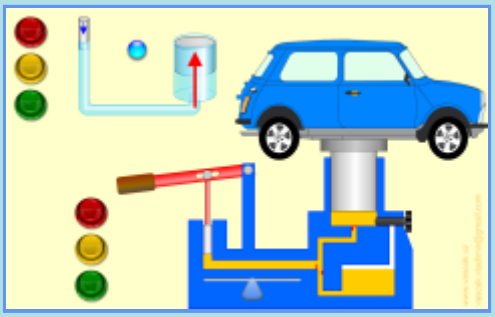
Ktesibios - hasičská stří...



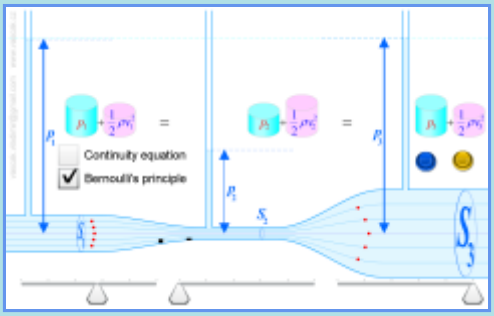
Pascalův zákon



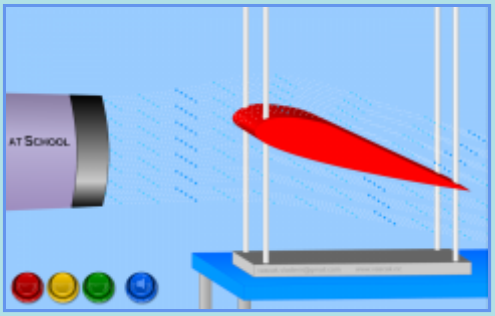
Hydraulický zvedák



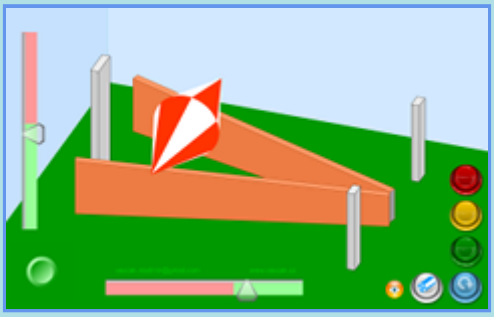
Bernoulliho rovnice



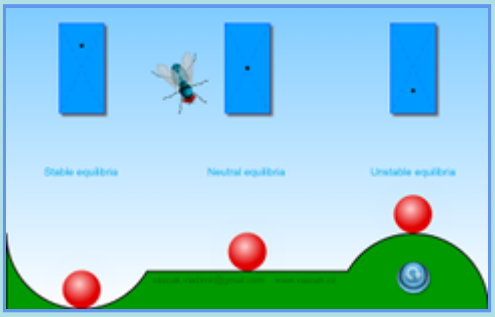
Dynamický vztlak



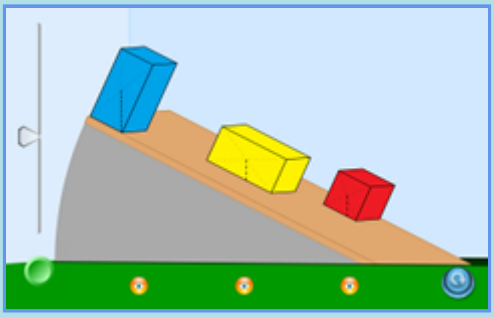
Těžiště



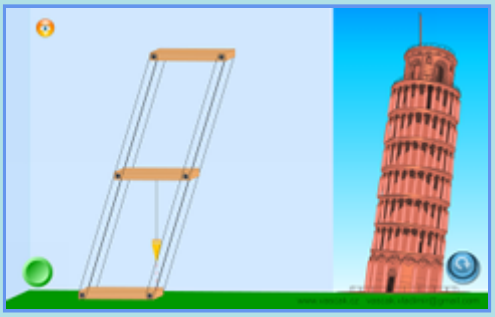
Stabilita těles 1



Stabilita těles 2

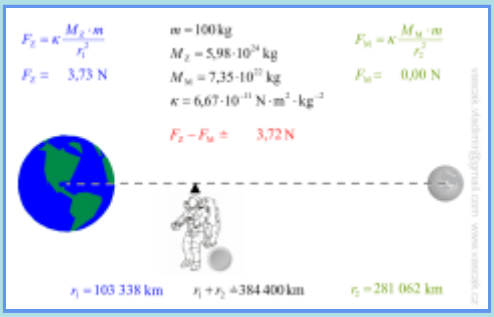


Stabilita těles 3

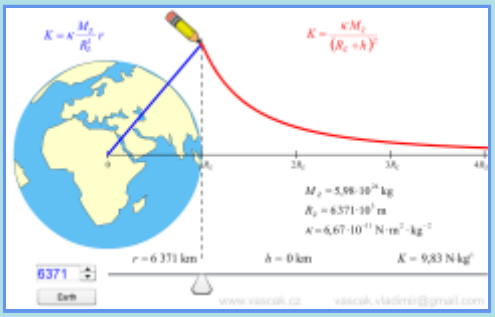


Gravitační pole

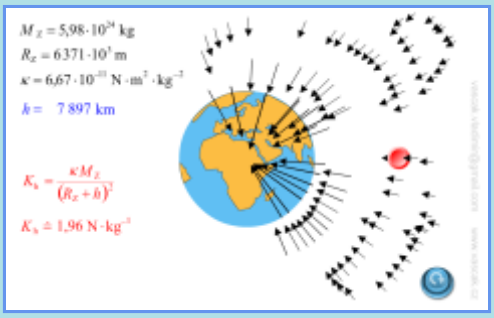
Newtonův gravitační zákon



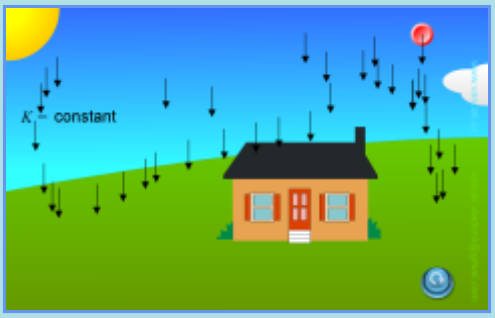
Intenzita gravitačního po...



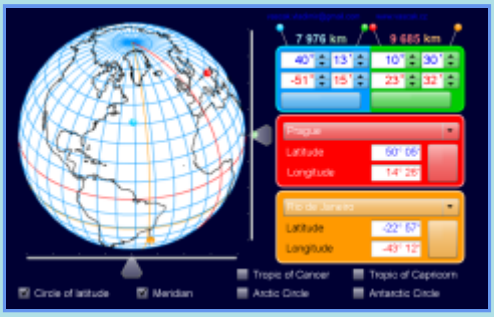
Centrální gravitační pole



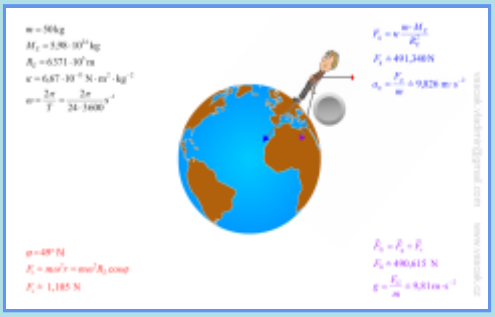
Homogenní gravitační pole



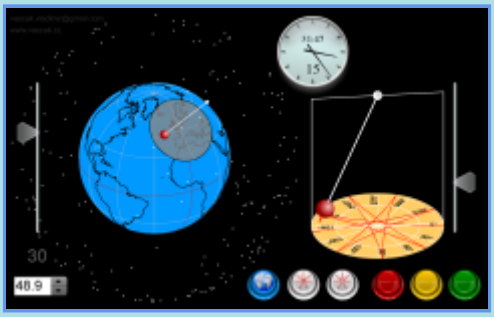
Zeměpisné souřadnice



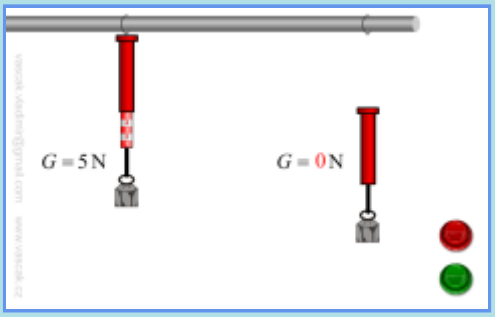
Tíhové zrychlení



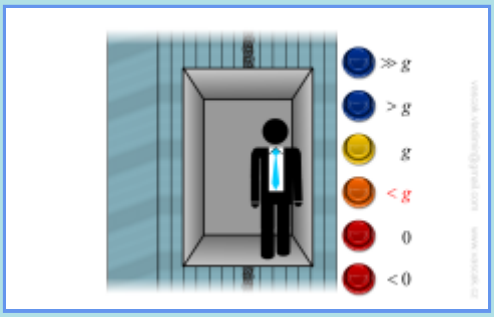
Foucaultovo kyvadlo



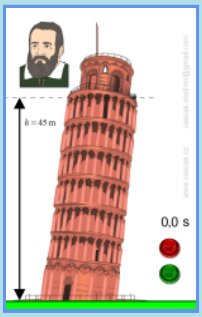
Beztížný stav



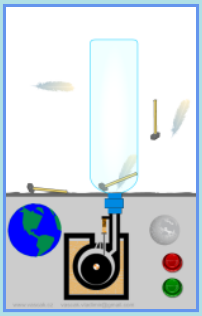
Super výtah



Volný pád

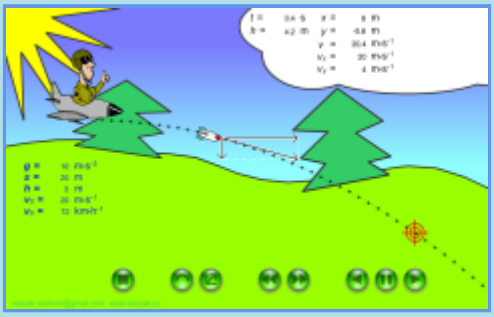


Newtonova trubice

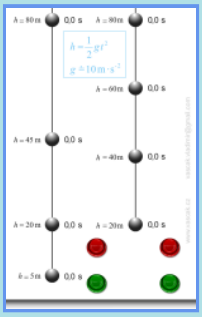


Skládání pohybů

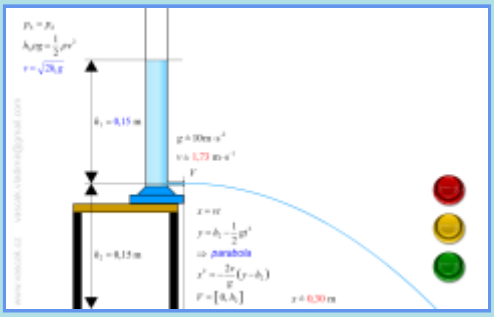
Vrh vodorovný



Padostroj

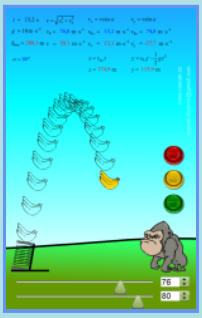


Výtok kapaliny otvorem

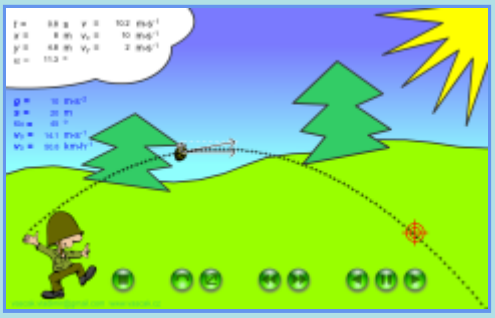


Vrh svislý

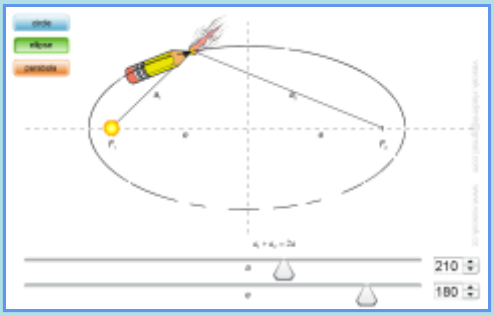
Vrh šikmý



Vrh šikmý - granát



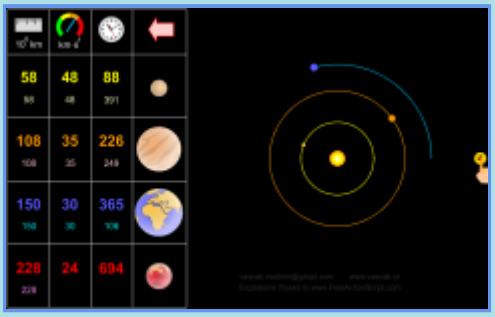
Trajektorie těles



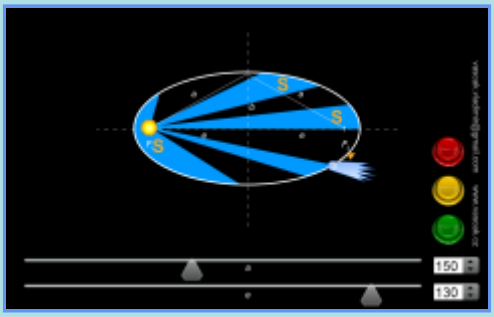
Newtonův kanón

Geostacionární družice

1. Keplerův zákon



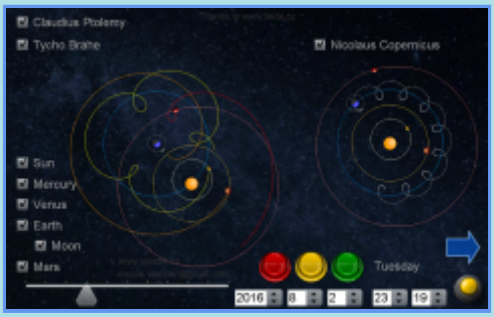
2. Keplerův zákon



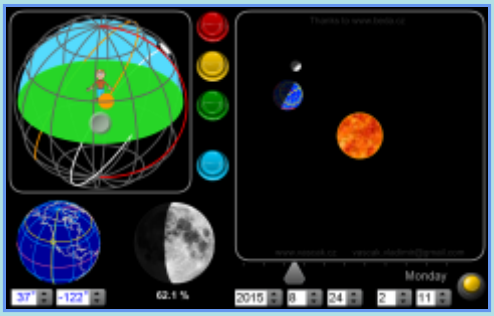
3. Keplerův zákon – vnitř...

3. Keplerův zákon – vnějš...

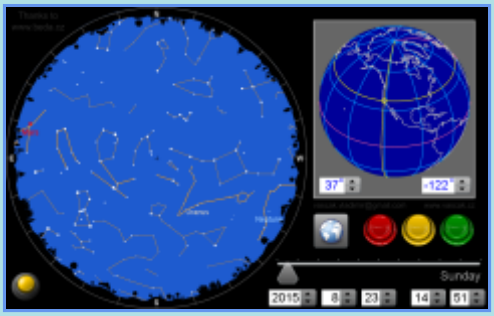
Sluneční soustava



Měsíční fáze

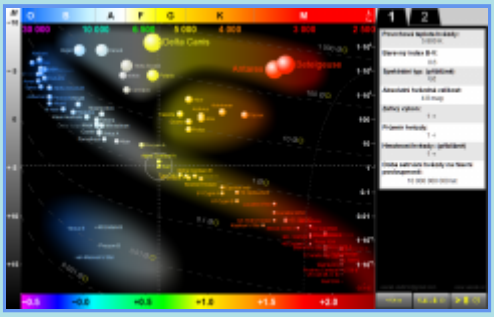


Souhvězdí



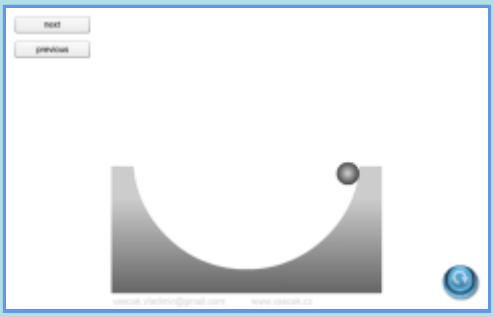
Keplerovy zákony

Hertzsprungův-Russellův d...

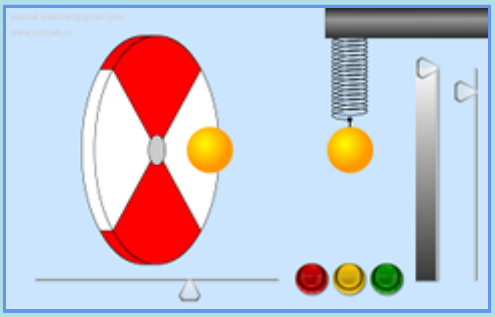


Mechanické kmitání a vlnění

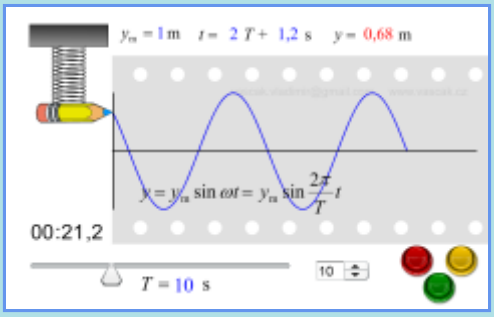
Oscilátory



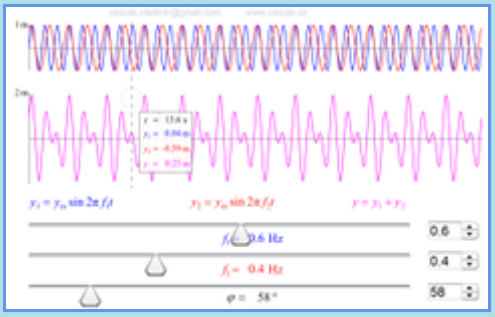
Pohyb po kružnici



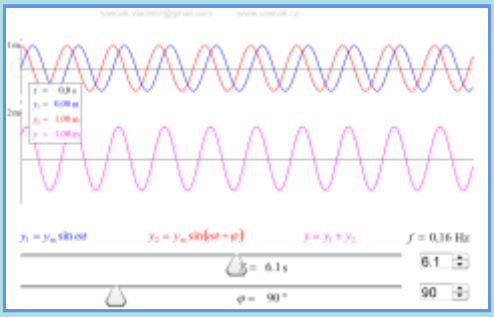
Harmonické kmitání



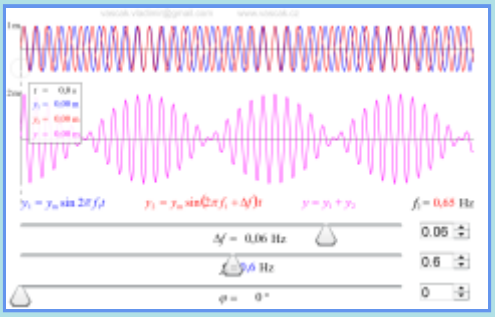
Skládání kmitání



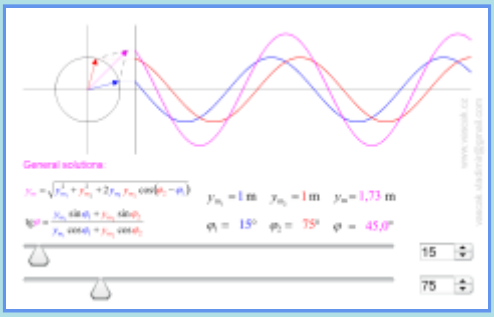
Skládání kmitání o stejné...



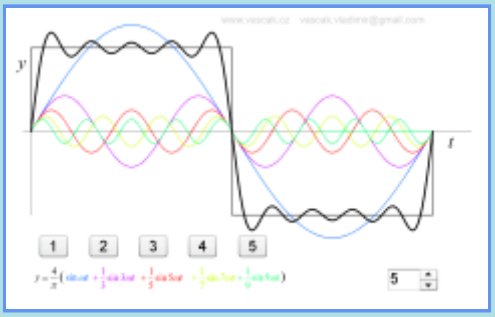
Skládání kmitání o blízké...



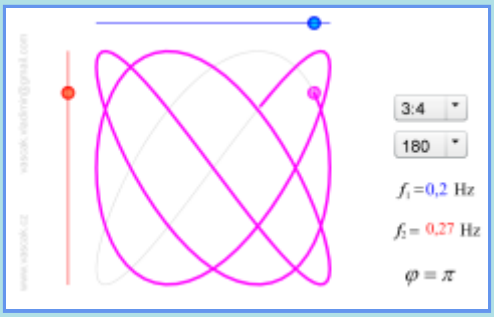
Fáze kmitavého pohybu



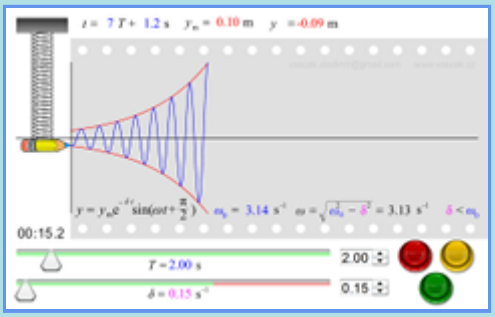
Obdélníkový kmit



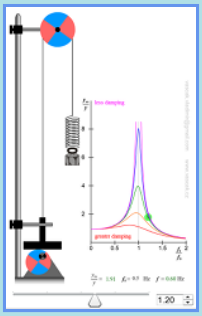
Lissajousovy obrazce



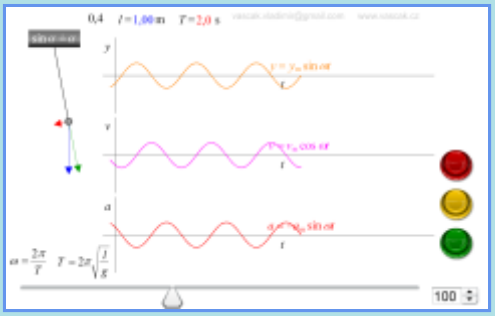
Tlumené kmity



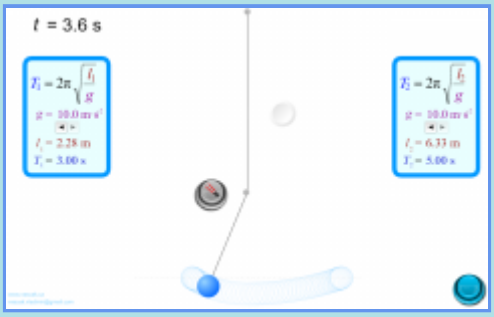
Nucené kmitání



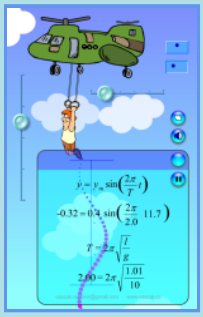
Matematické kyvadlo



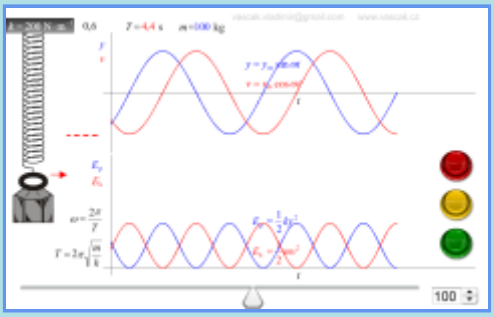
Matematické kyvadlo - Hře...



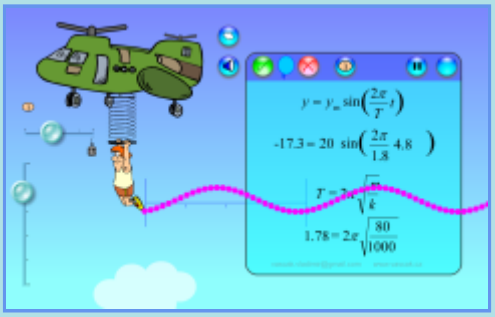
Matematické kyvadlo - Hel...



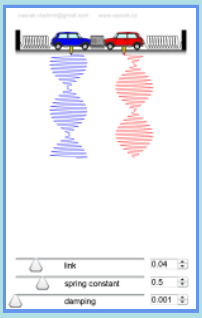
Mechanický oscilátor



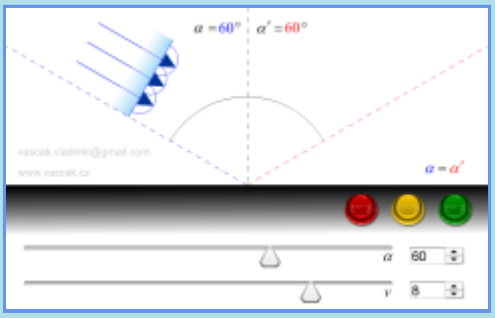
Mechanický oscilátor - He...



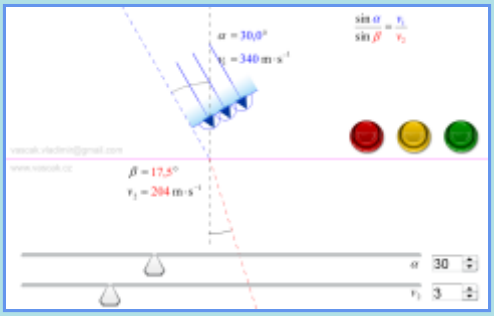
Spřažené oscilátory



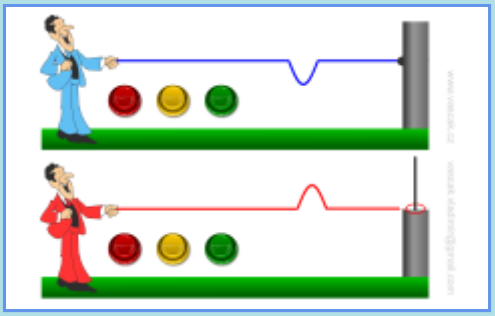
Odraz vlnění



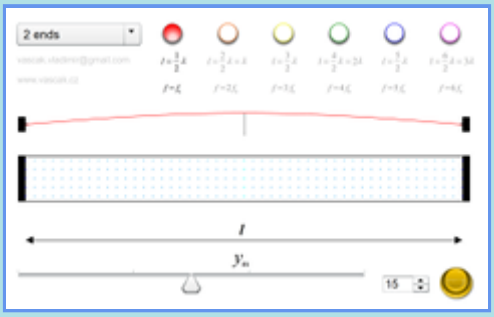
Lom vlnění



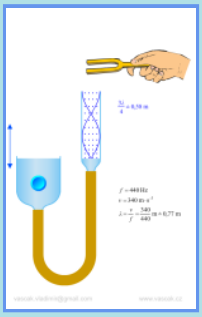
Odraz na konci



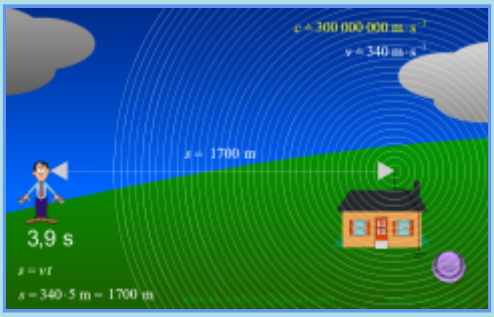
Stojaté vlnění



Rezonance



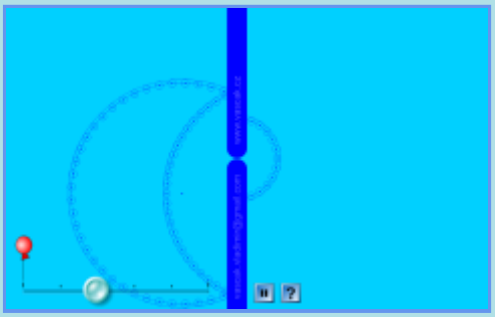
Rychlost zvuku



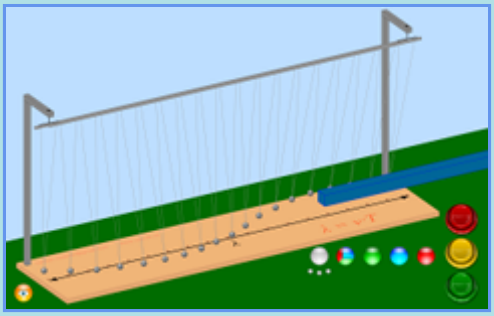
Dopplerův jev

Rázová vlna

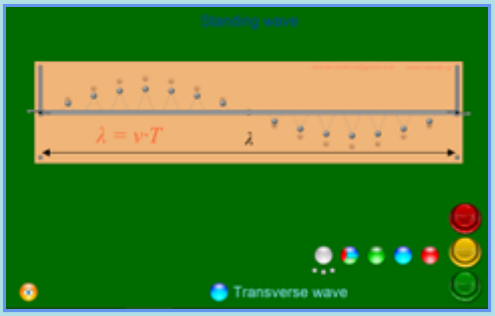
Huygensův princip



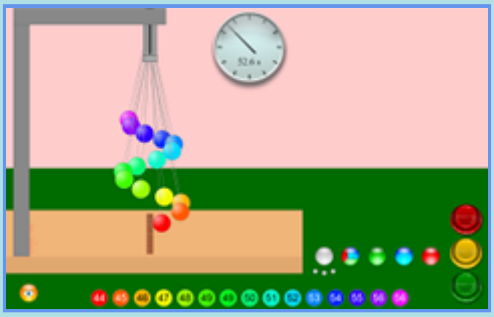
Vlnostroj



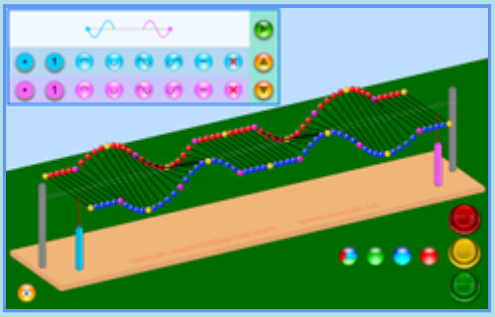
Stojaté vlnění



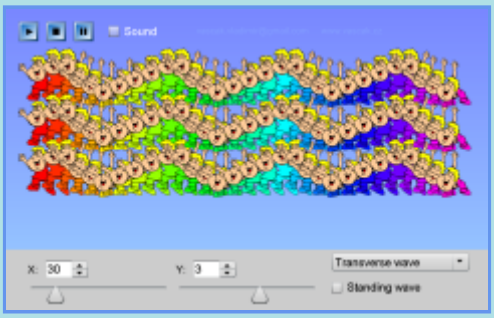
Machův vlnostroj



Juliův vlnostroj



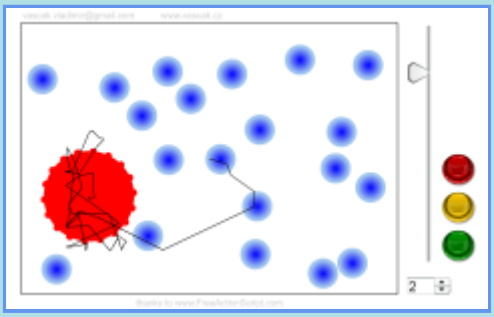
Vlnění



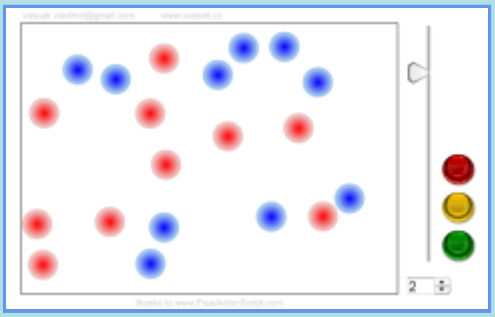
Zvuk

Molekulová fyzika a termika

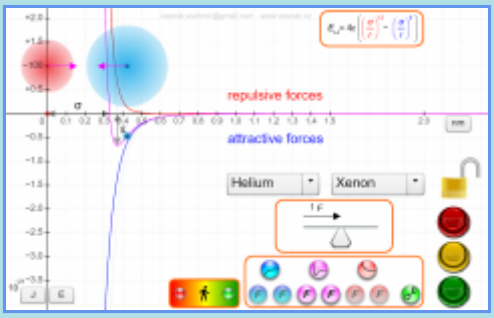
Brownův pohyb



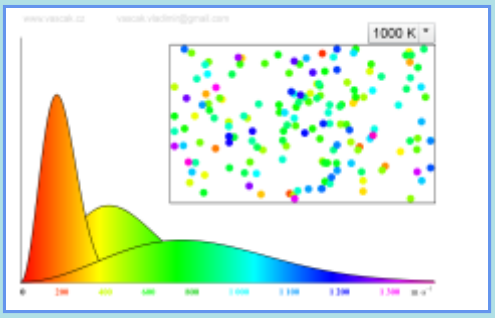
Difuze



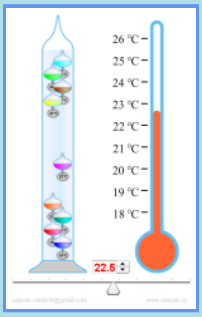
Vzájemné působení částic



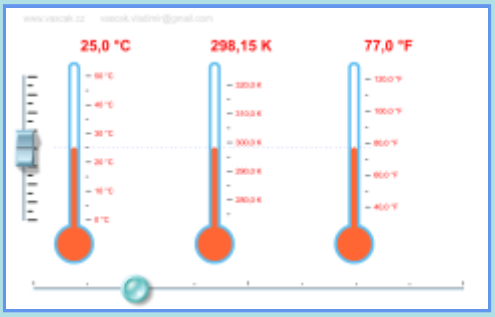
Rozdělení molekul plynu p...



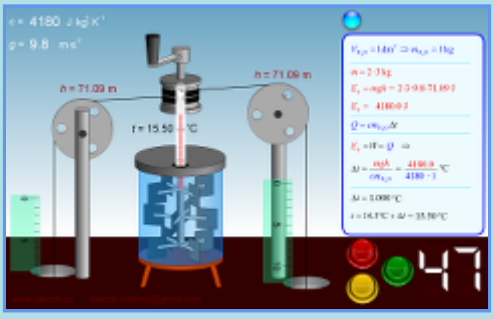
Galileův teploměr



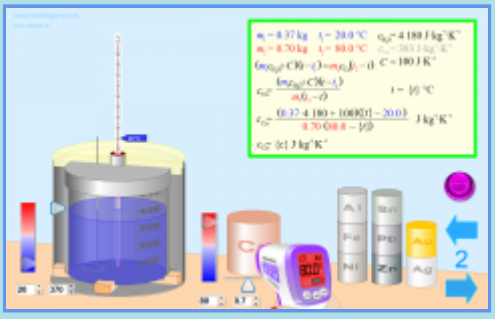
Teplotní stupnice



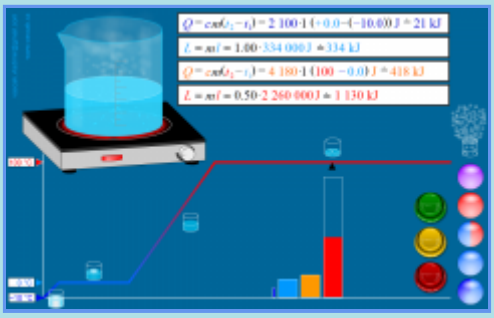
Jouleův experiment



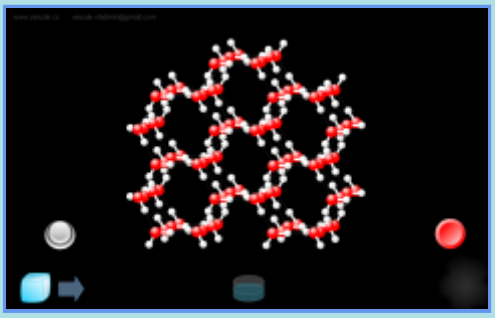
Kalorimetr



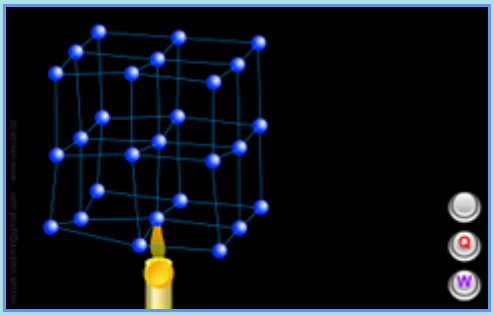
Skupenství



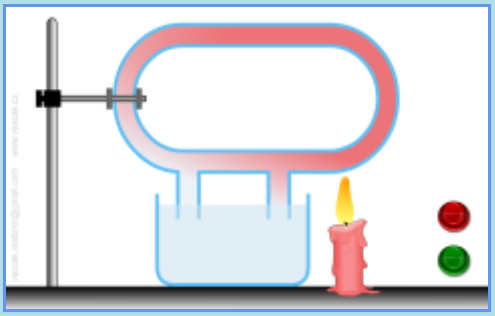
Skupenství - voda



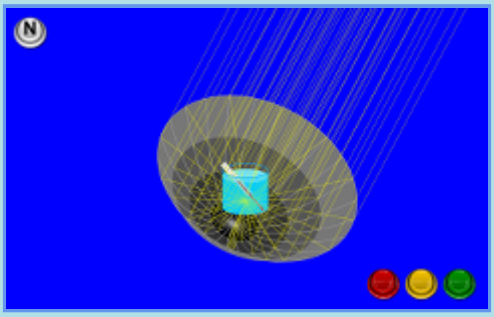
Vnitřní energie



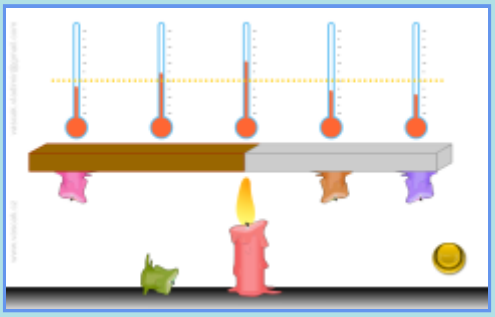
Přenos energie prouděním



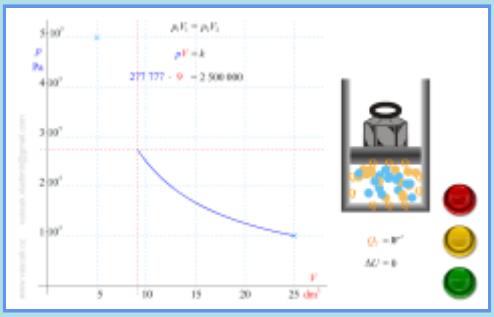
Přenos energie zářením



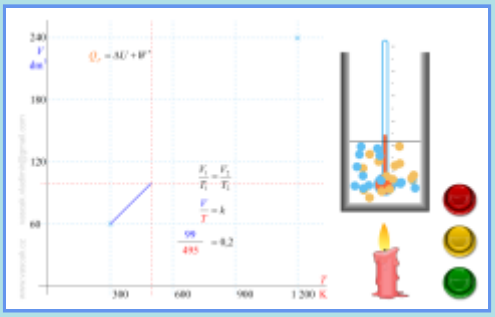
Přenos energie vedením



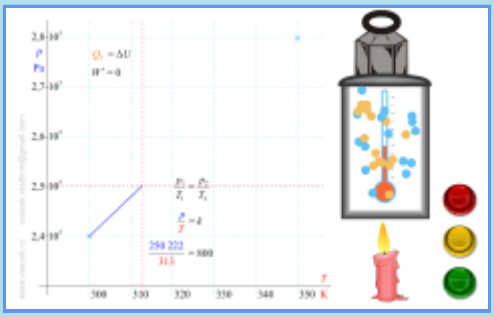
Izotermický děj – Boyleův...



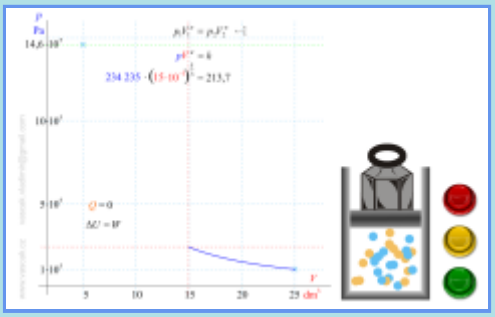
Izobarický děj – Gay-Luss...



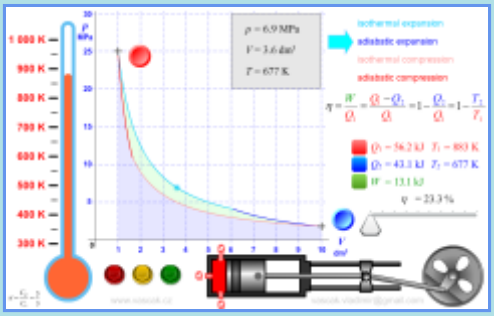
Izochorický děj – Charles...



Adiabatický děj

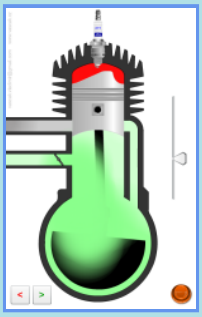


Carnotův cyklus

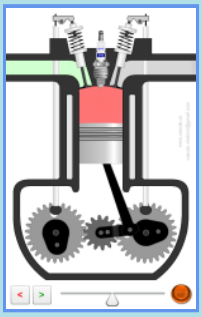


Parní lokomotiva

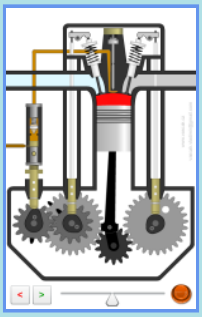
Dvoudobý motor



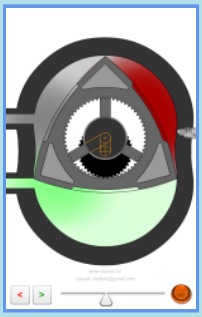
Čtyřdobý motor



Vznětový motor

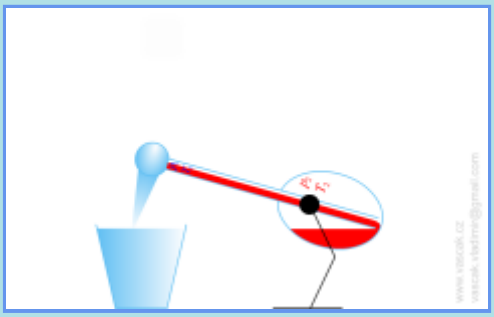


Wankelův motor

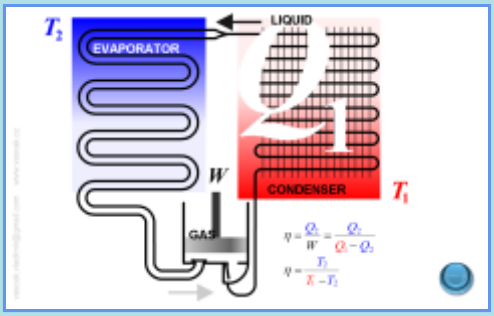


Perpetuum mobile

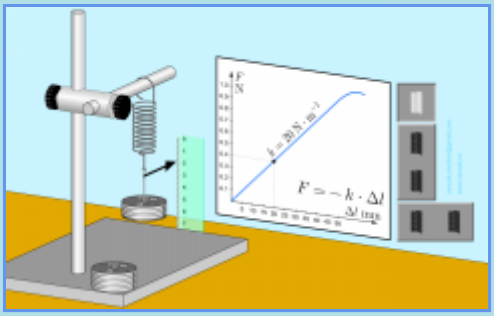
Čínský ptáček (houpací čá...



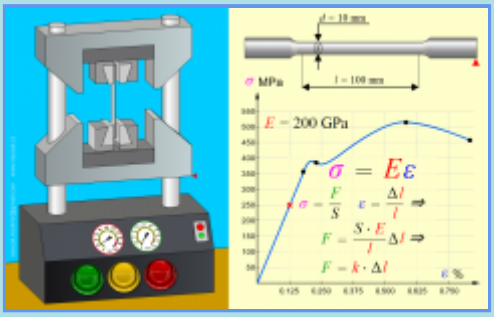
Lednička



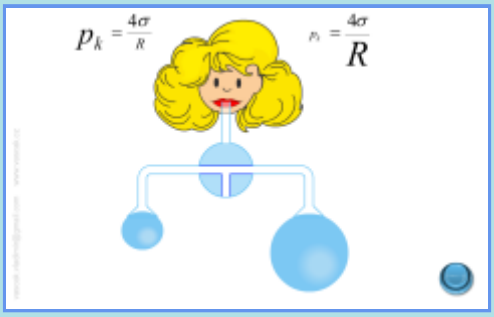
Hookův zákon - 1



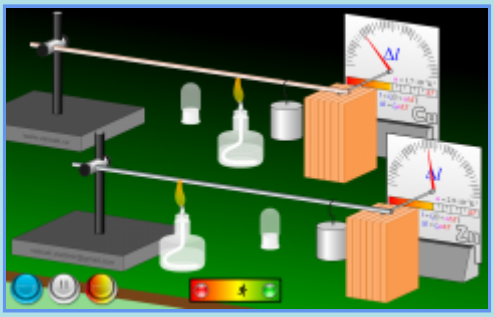
Hookův zákon - 2



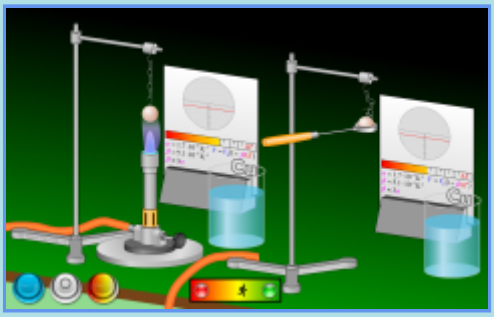
Kapilární tlak



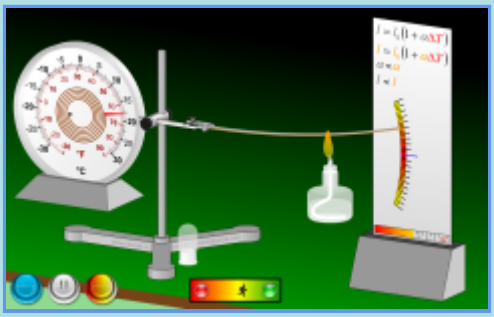
Teplotní roztažnost



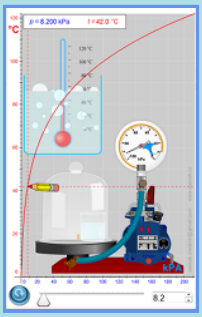
Teplotní roztažnost



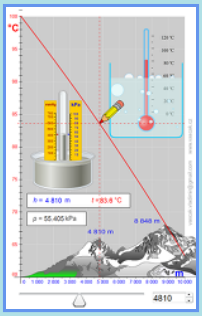
Bimetal



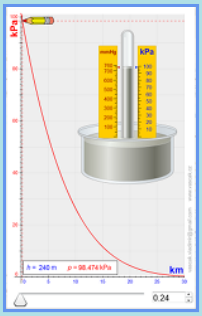
Bod varu - Atmosférický t...



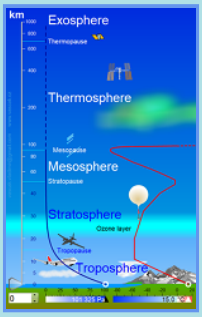
Bod varu - Nadmořská výšk...



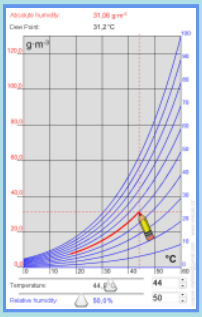
Atmosférický tlak - Nadmo...



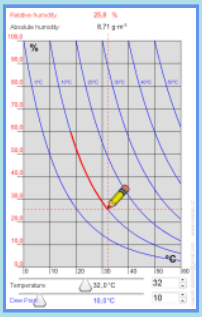
Atmosféra Země



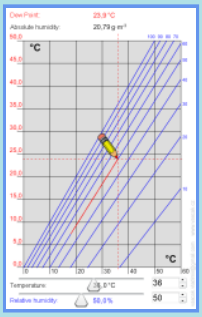
Absolutní vlhkost



Relativní vlhkost



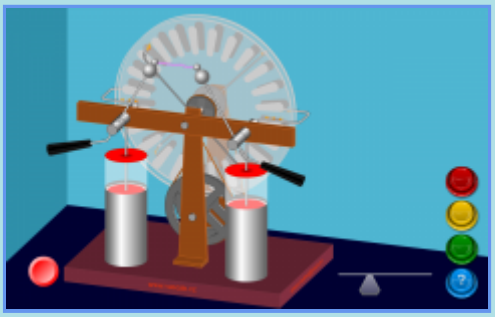
Rosný bod



Elektrostatika

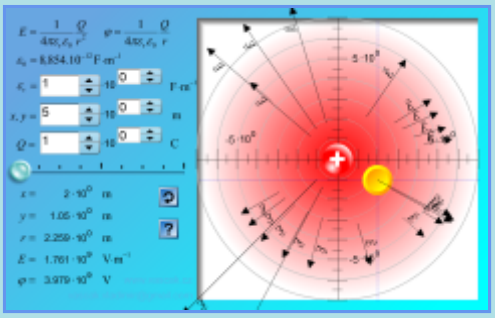
Coulombův zákon

Wimshurstova indukční ele...

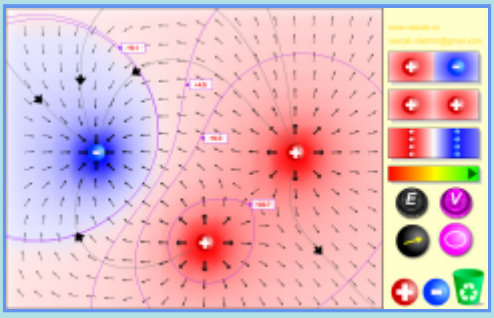


Van de Graaffův generátor

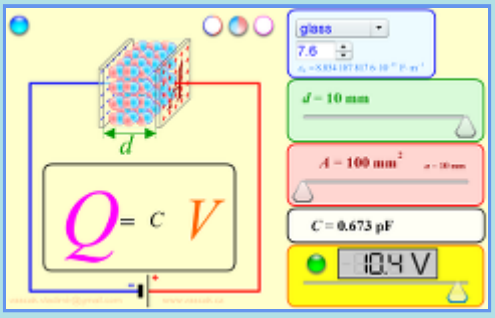
Elektrické pole



Náboj a pole

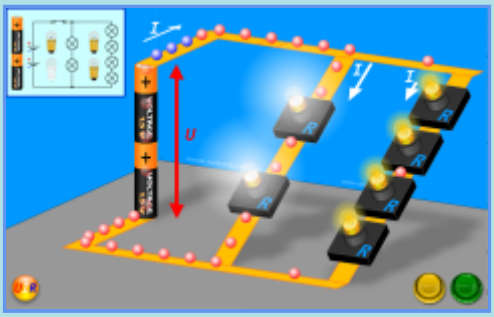


Kondenzátor

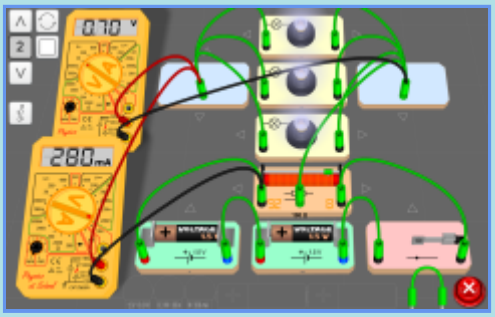


Elektrický proud

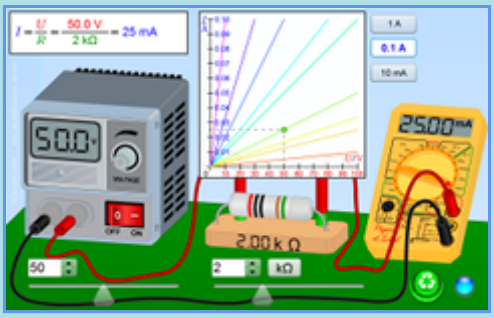
Napětí, proud a odpor



Elektrický obvod

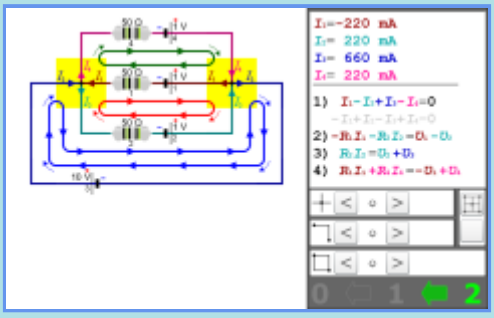


Ohmův zákon

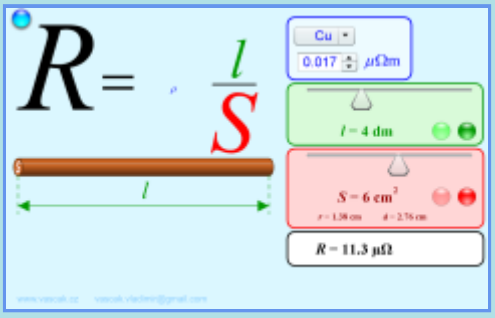


Vnitřní odpor

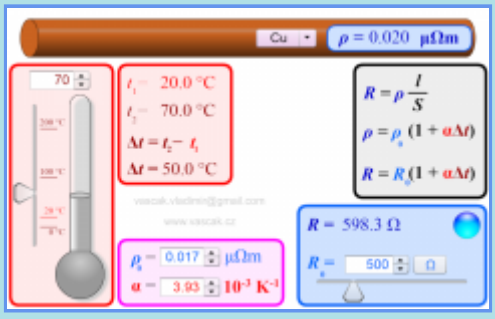
Kirchhoffovy zákony



Elektrický odpor

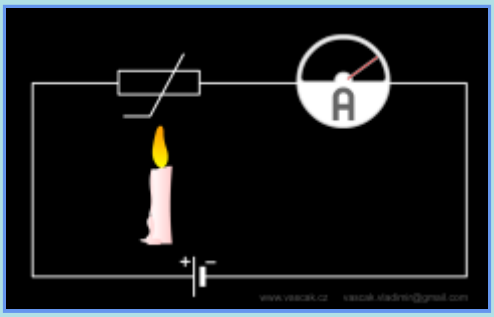


Teplotní součinitel elekt...

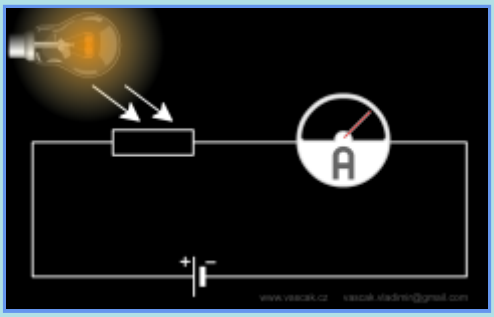


Polovodiče

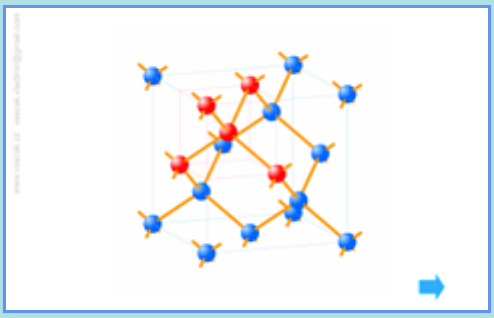
Termistor



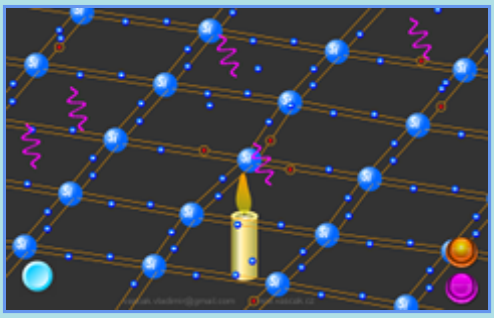
Fotorezistor



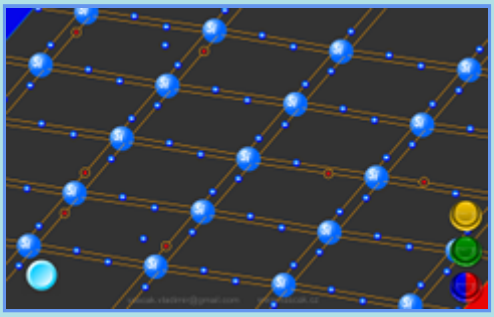
Křemík



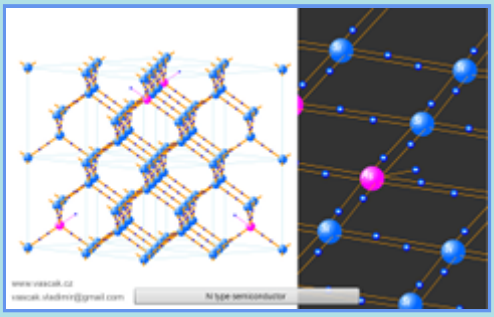
Generace páru elektron dí...



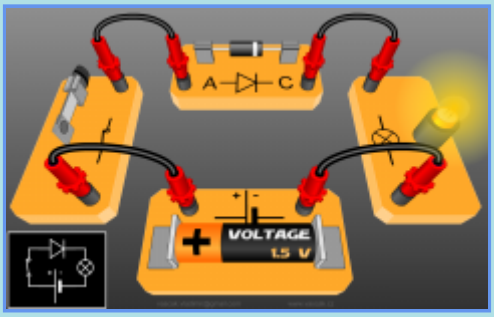
Vlastní vodivost



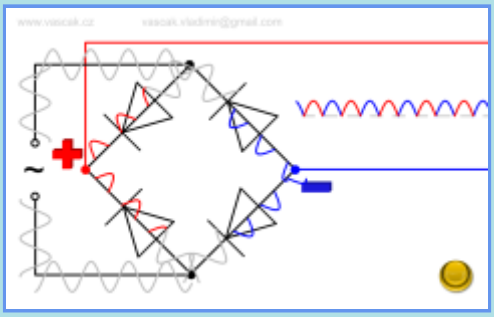
Polovodiče



Dioda

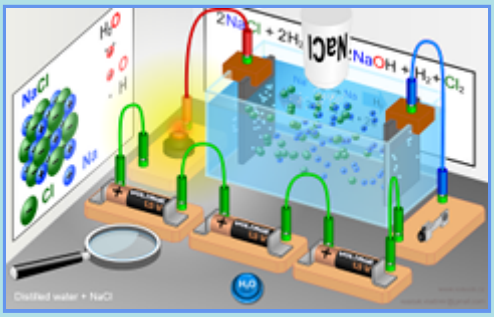


Grätzovo zapojení

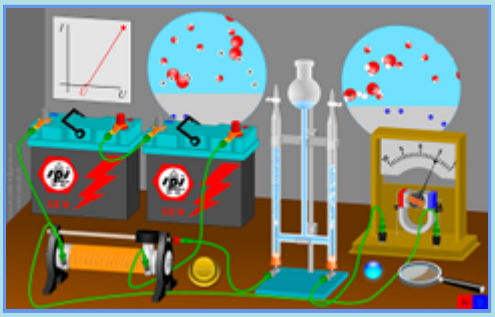


Elektrický proud v kapalinách

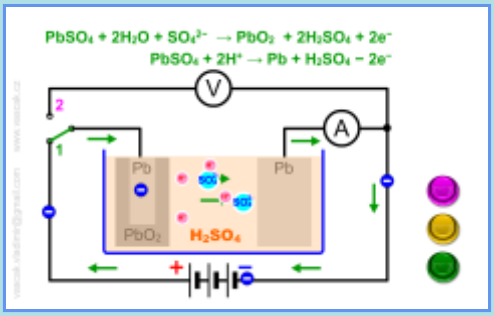
Elektrolytická disociace



Elektrolýza

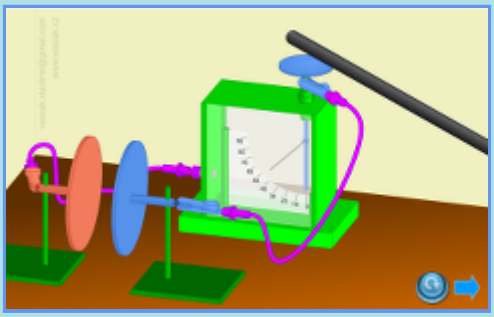


Olověný akumulátor

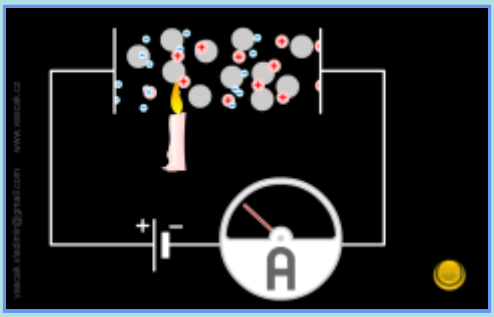


Elektrický proud v plynech a ve vakuu

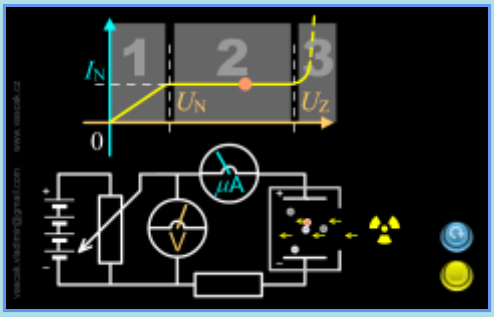
Ionizace - vybití elektro...



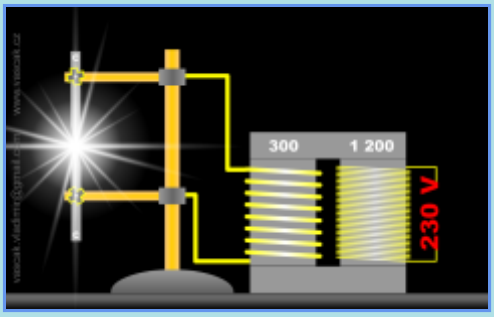
Nesamostatný výboj



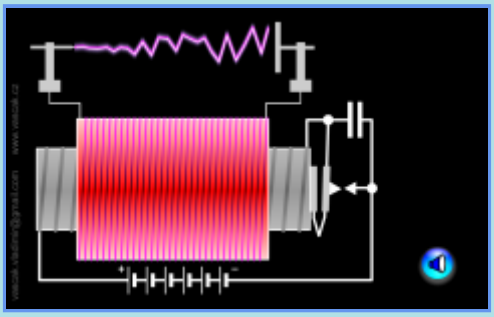
Voltampérová charakterist...



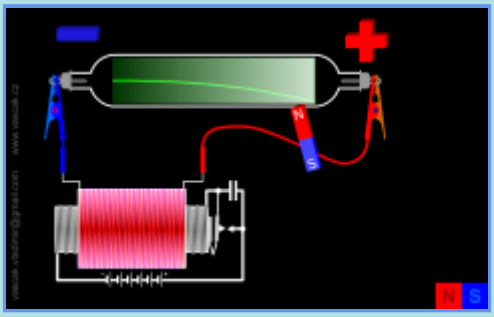
Obloukový výboj



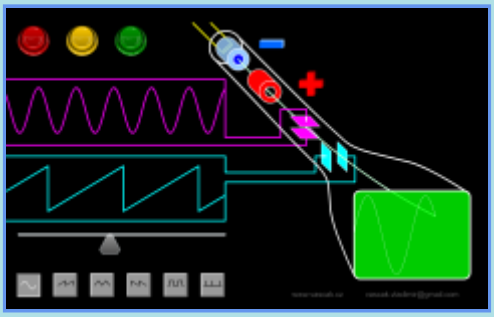
Ruhmkorffův induktor



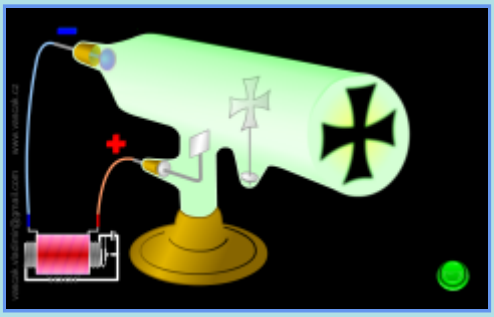
Katodové záření



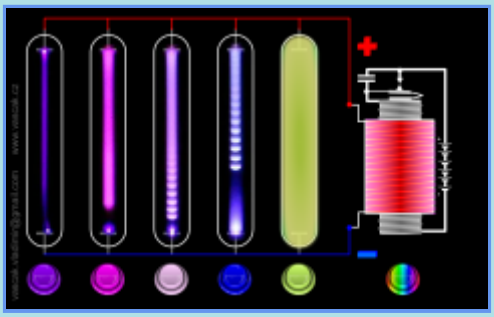
Osciloskop



Katodová trubice - Maltéz...

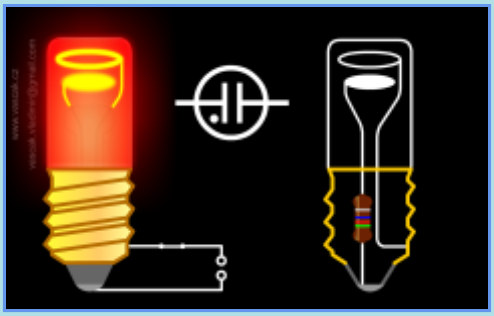


Výboj při sníženém tlaku

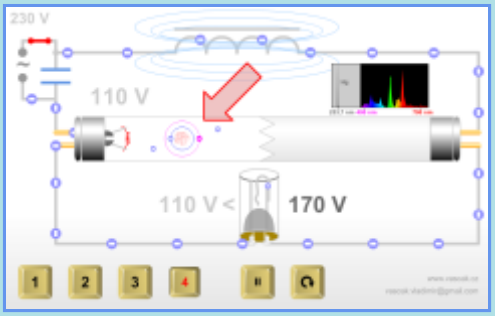


Oheň svatého Eliáše

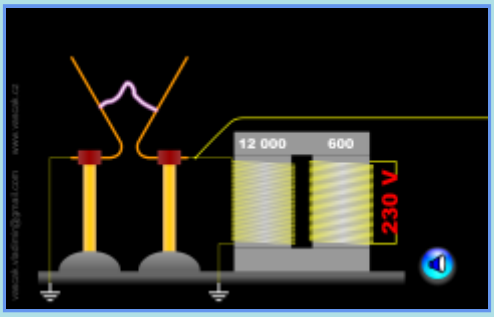
Doutnavka



Zářivka

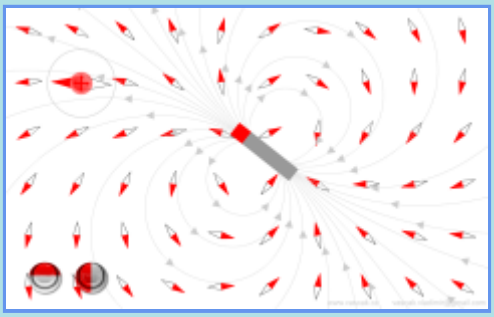


Růžková bleskojistka

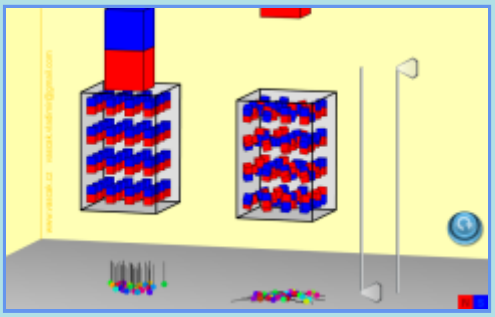


Magnetické pole

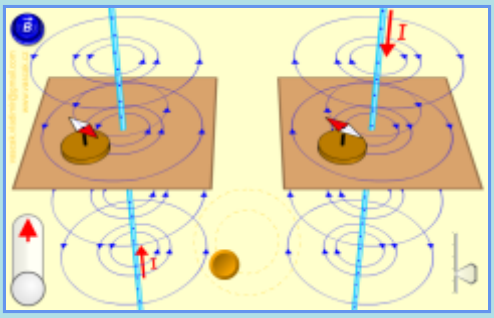
Magnet



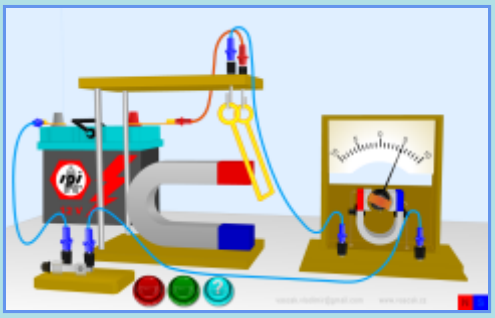
Feromagnetismus



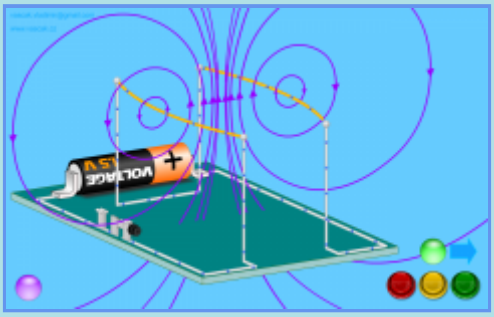
Ampérovo pravidlo pravé r...



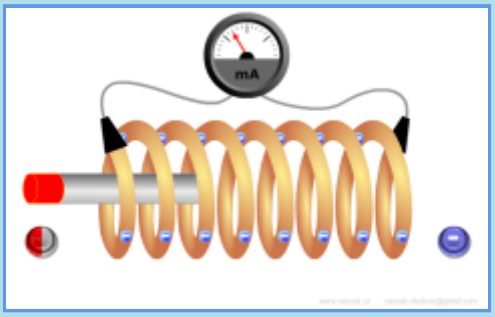
Flemingovo pravidlo levé ...



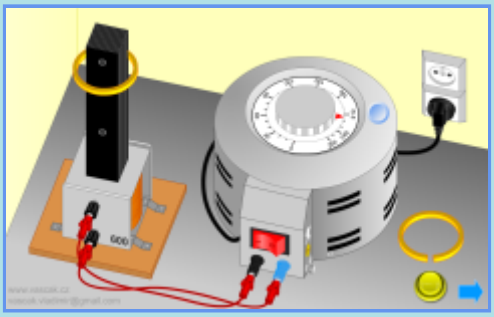
Ampérův zákon



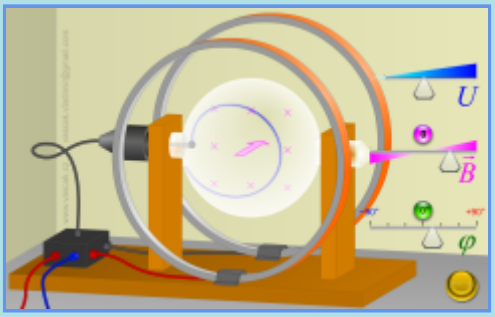
Elektromagnetická indukce



Lenzův zákon

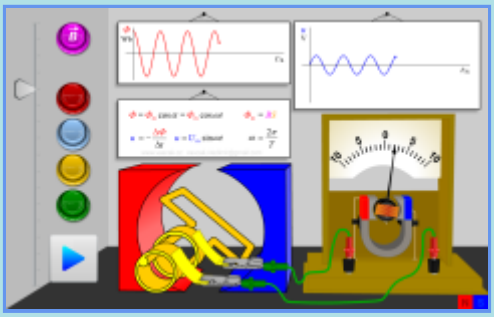


Wehneltova trubice

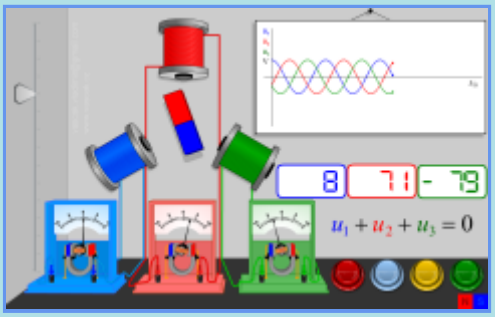


Střídavý proud

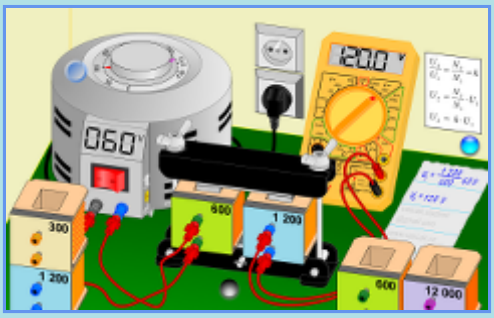
Alternátor a dynamo



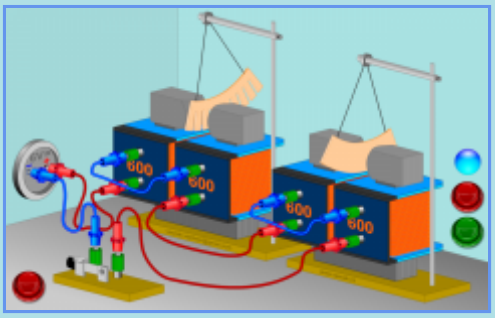
Třífázový generátor



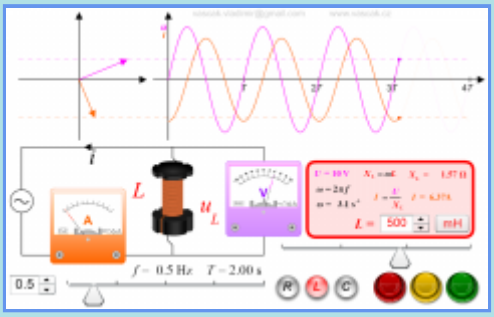
Transformátor



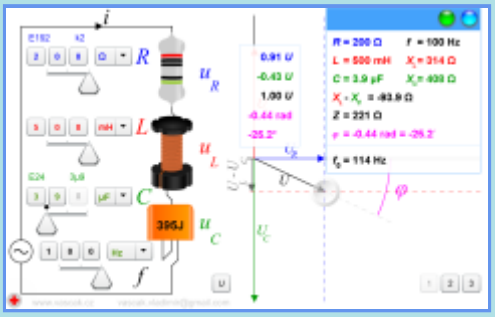
Waltenhofenovo kyvadlo



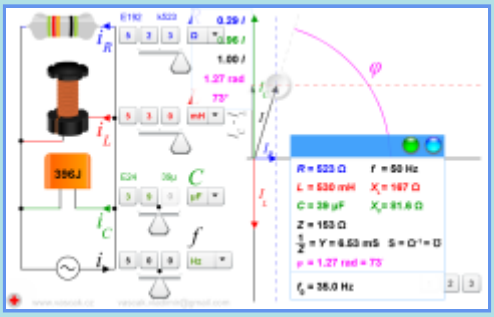
Jednoduché obvody střídav...



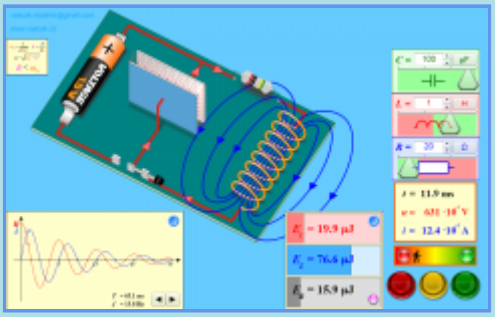
Sériový obvod RLC



Paralelní obvod RLC

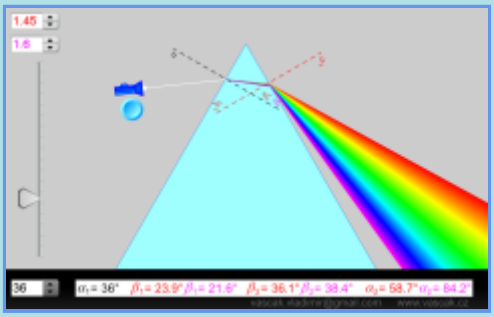


Elektromagnetický oscilač...

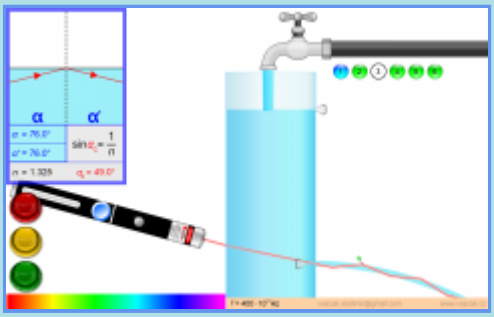


Optika

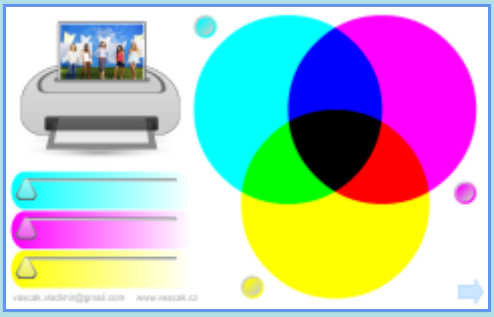
Optický hranol



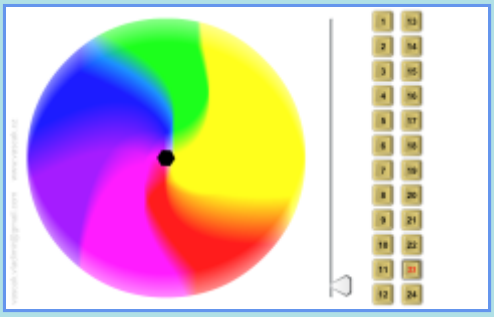
Totální odraz



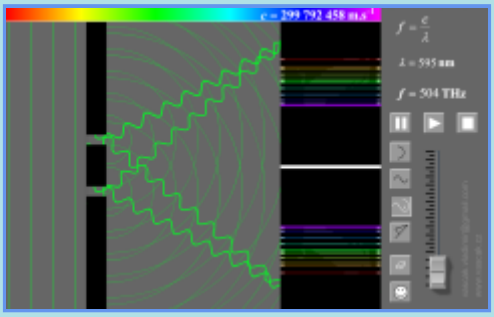
Subtraktivní a aditivní m...



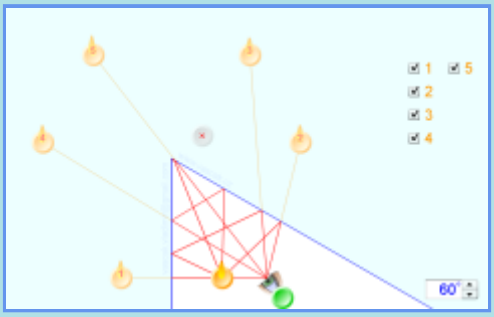
Newtonův kotouč



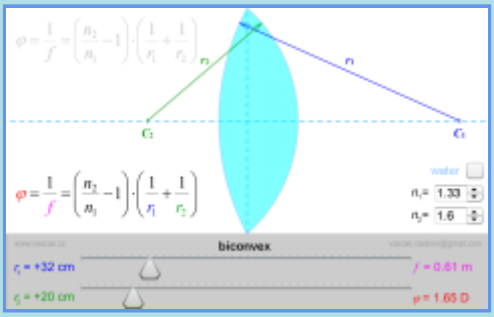
Youngův pokus



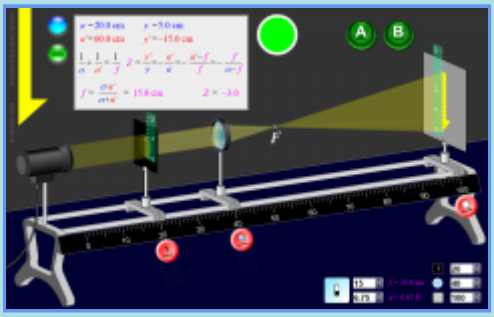
Zrcadla



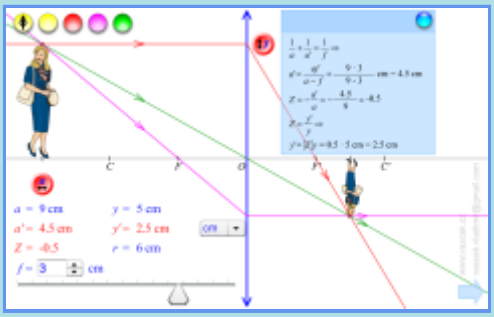
Čočka



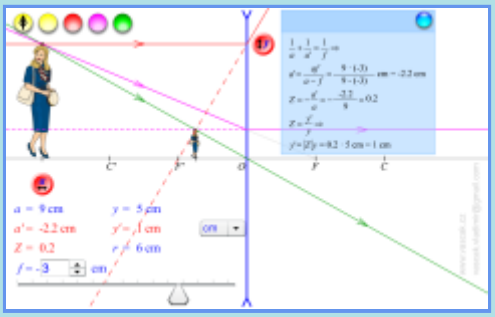
Ohnisková vzdálenost



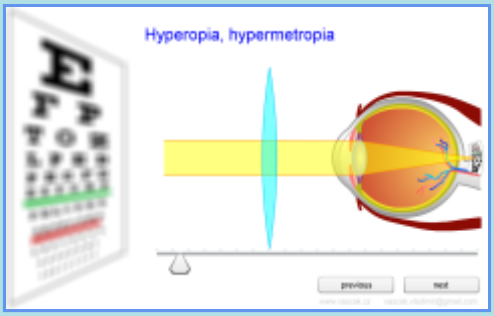
Spojka



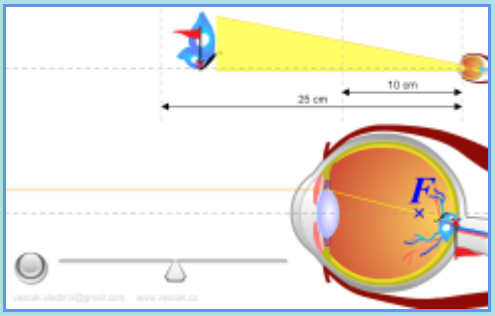
Rozptylka



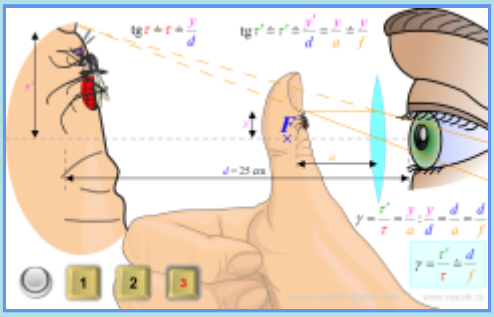
Oční vady



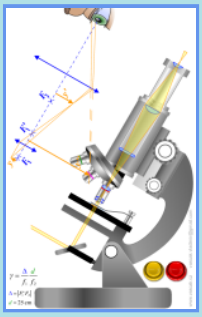
Akomodace oka



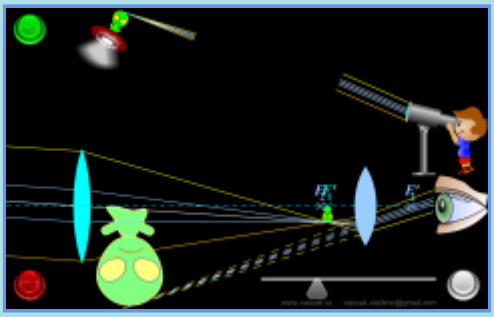
Lupa



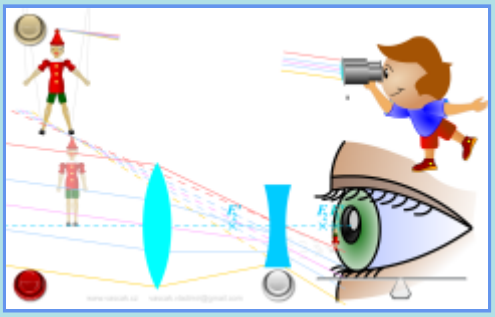
Mikroskop



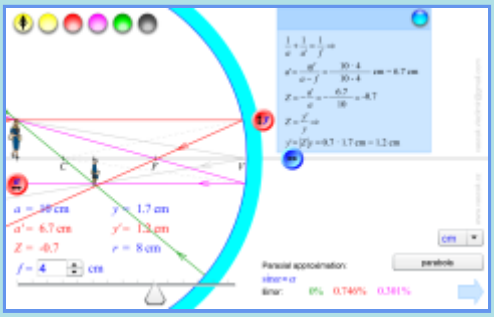
Keplerův dalekohled



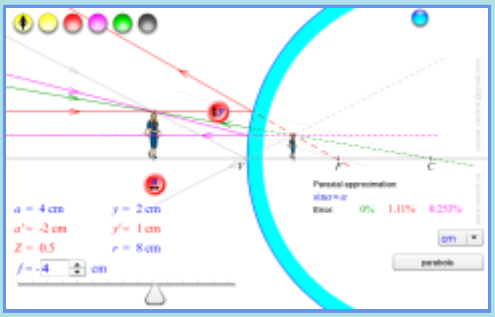
Galileův dalekohled



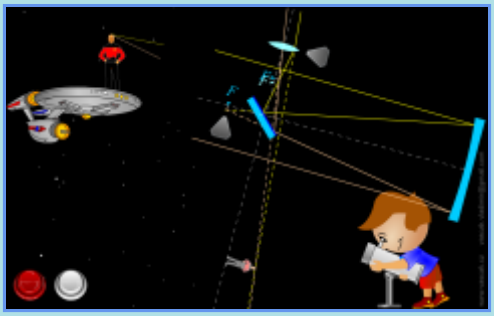
Duté (konkávní) zrcadlo



Vypuklé (konvexní) zrcadl...

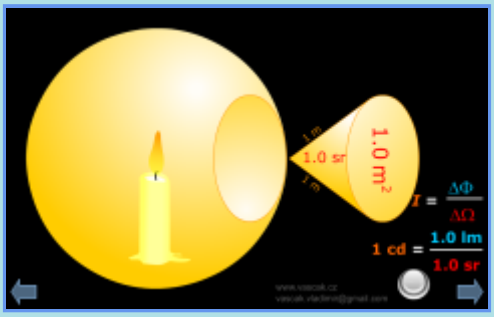


Newtonův dalekohled

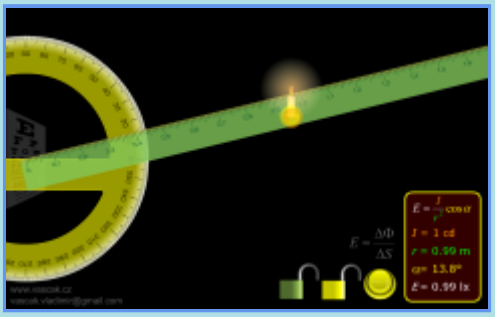


Světelný tok

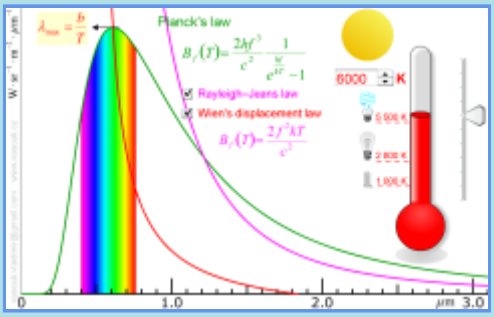
Svítivost



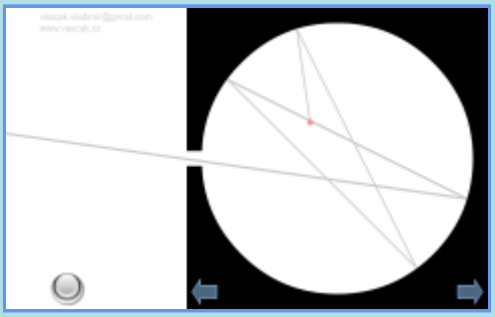
Osvětlení



Absolutně černé těleso

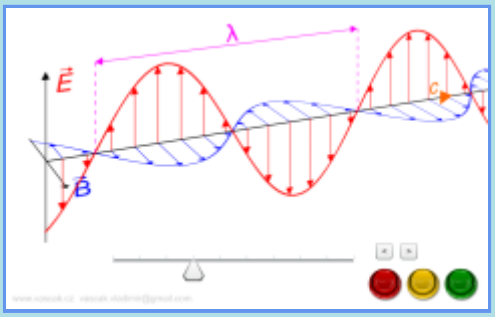


Model černého tělesa



Fotoelektrický jev

Elektromagnetická vlna

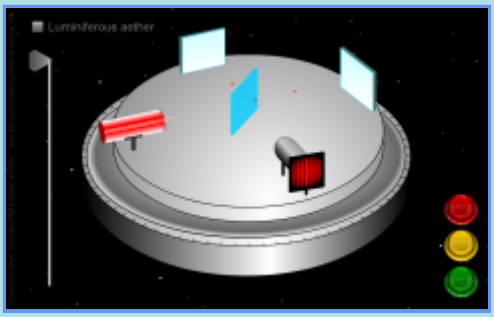


Polarizační filtr

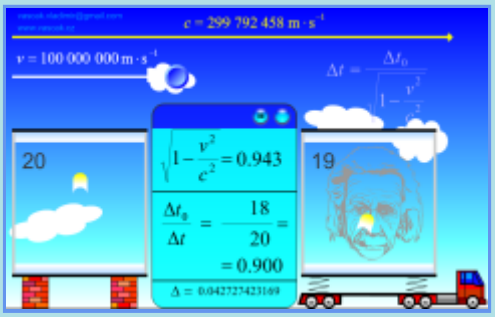
Rentgenka

Speciální teorie relativity

Michelsonův–Morleyův expe…



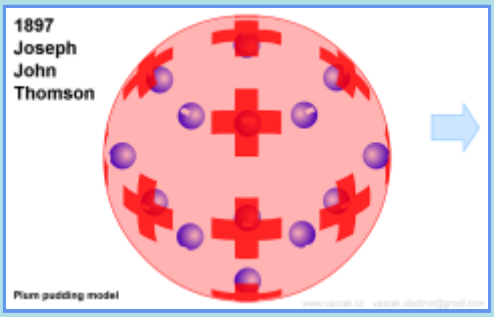
Dilatace času



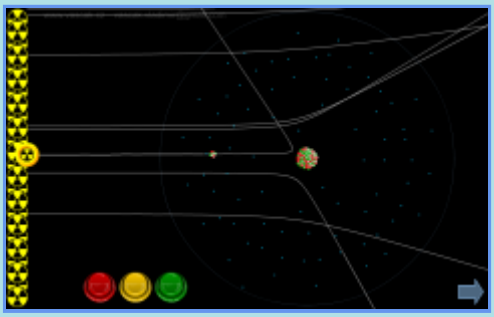
Kontrakce délky

Atomová fyzika

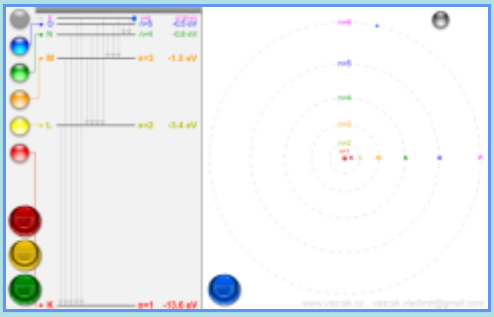
Modely atomů



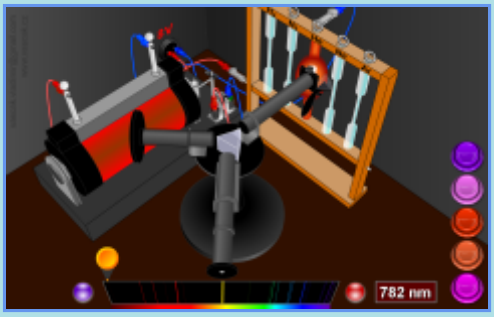
Rutherfordův pokus



Bohrův model atomu

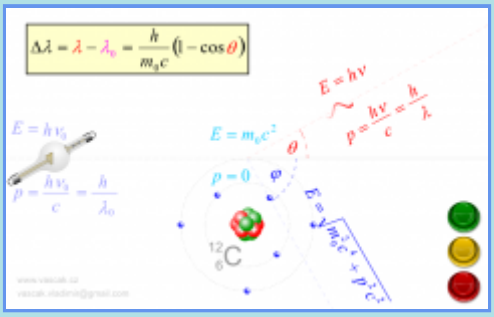


Spektroskop

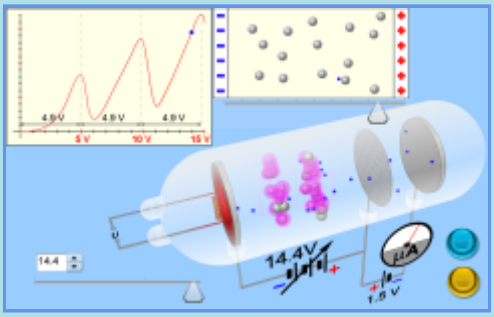


Millikanův experiment

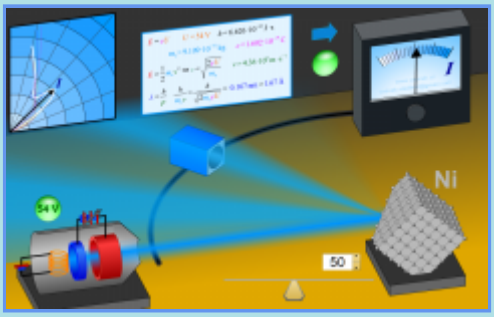
Comptonův jev



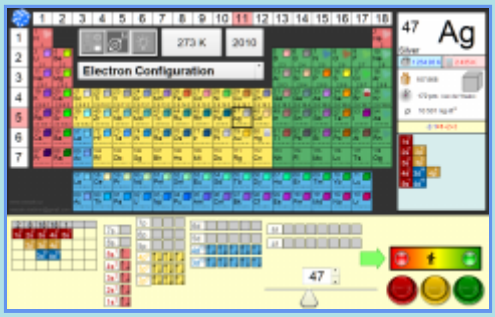
Franckův-Hertzův experime...



Davissonův-Germerův exper...

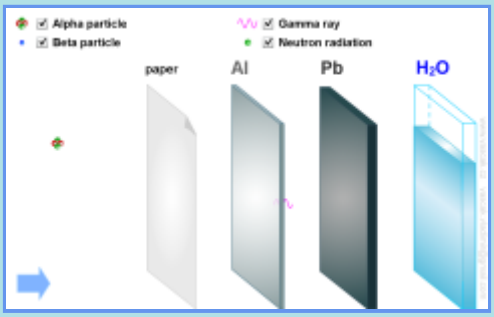


Periodická tabulka

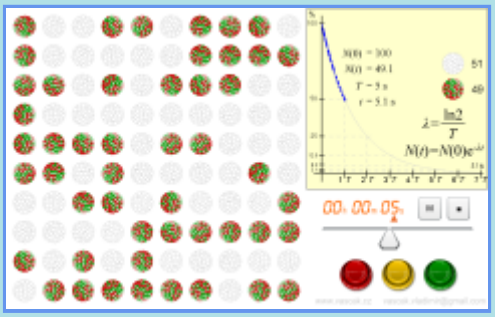


Jaderná fyzika

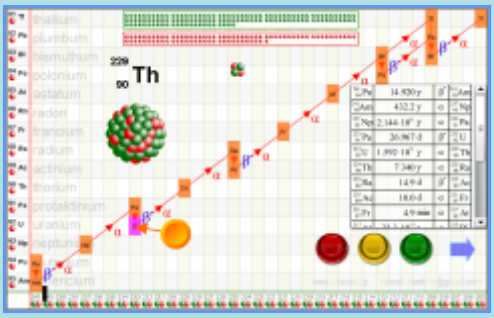
Radioaktivita



Zákon radioaktivní přeměn...



Rozpadová řada



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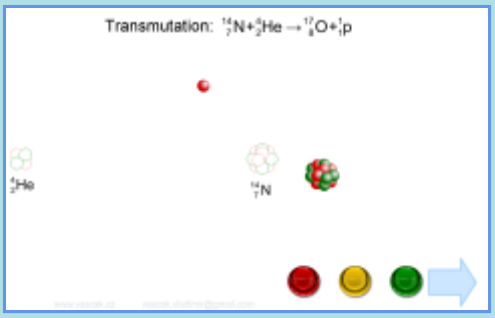
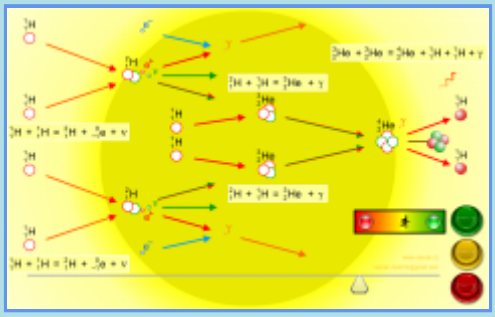
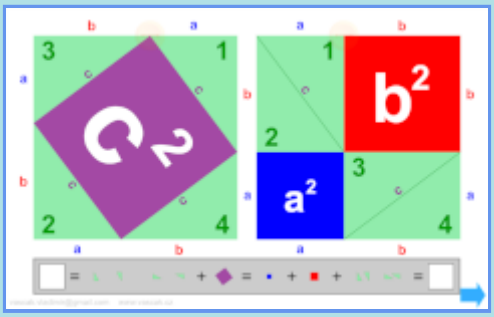


Termonukleární fúze - Slu...

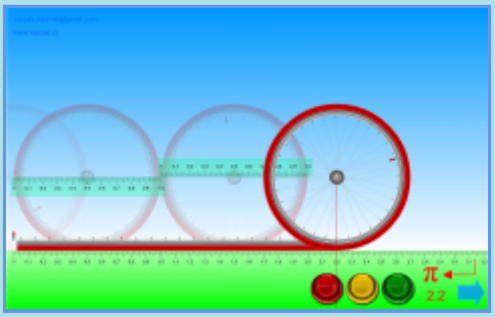


Matematika

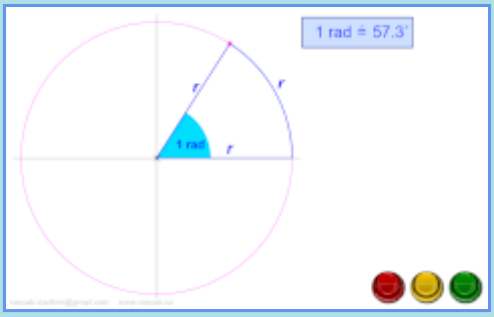
Pythagorova věta



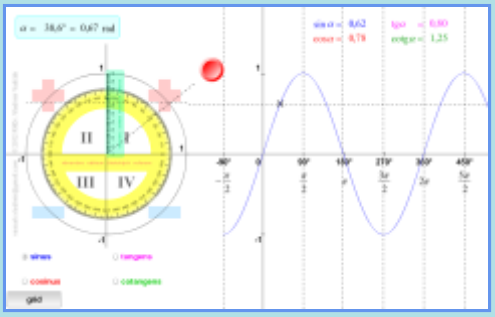
Ludolfovo číslo



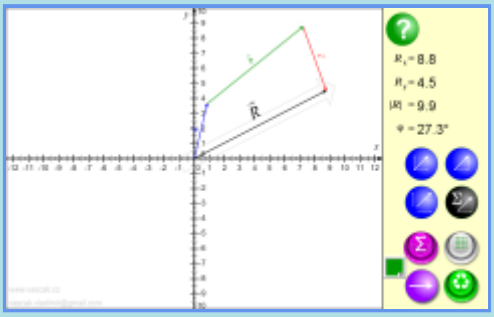
Radián



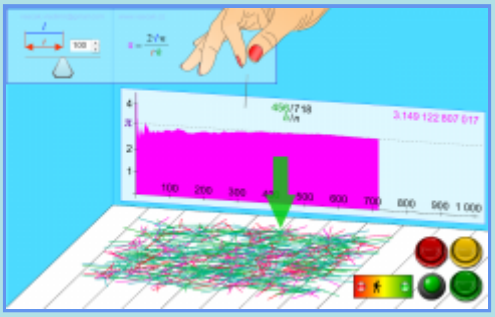
Jednotková kružnice



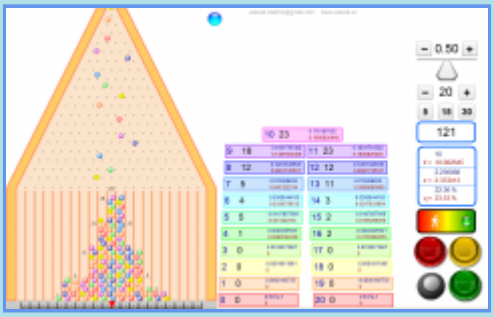
Sčítání vektorů



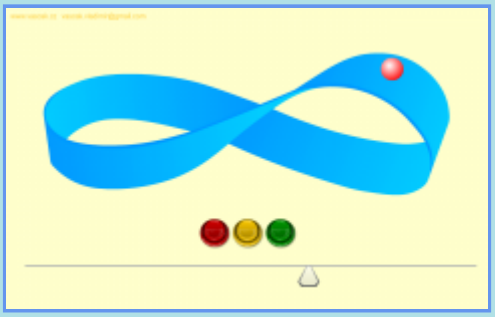
Buffonova jehla



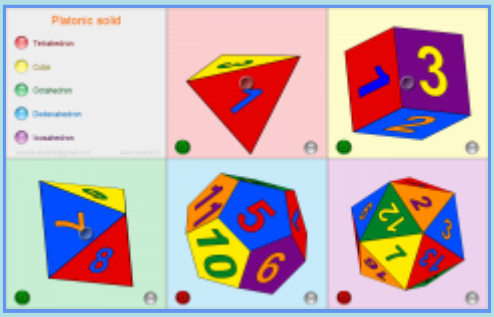
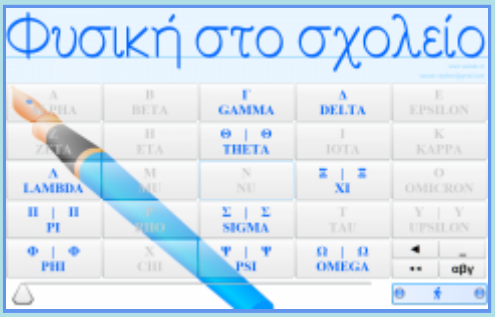
Galtonova deska



Möbiova páska



Platonská tělesa



Řecká abeceda