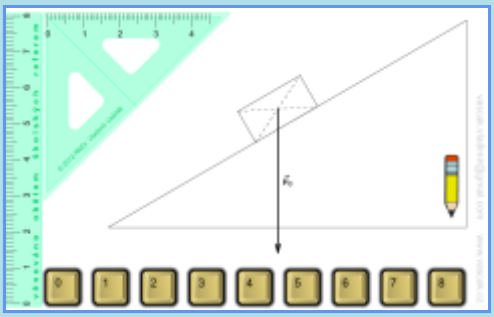
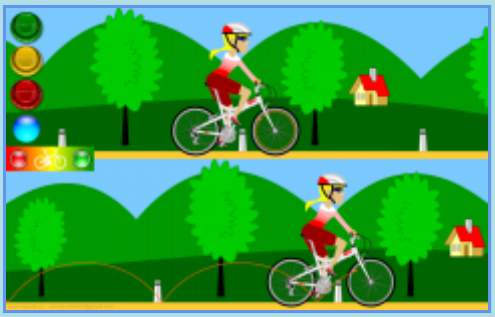
Fyzika v škole

Mechanika

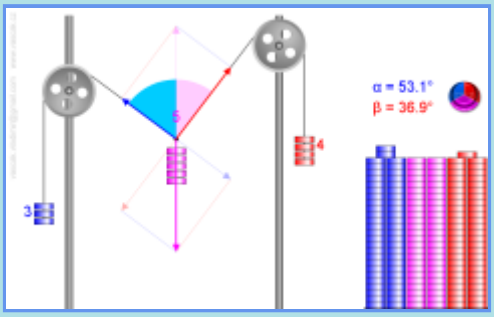
Naklonená rovina



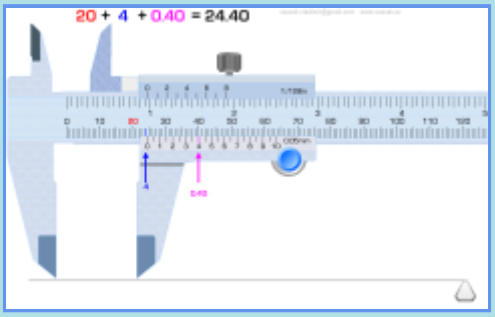
Vzťažná sústava



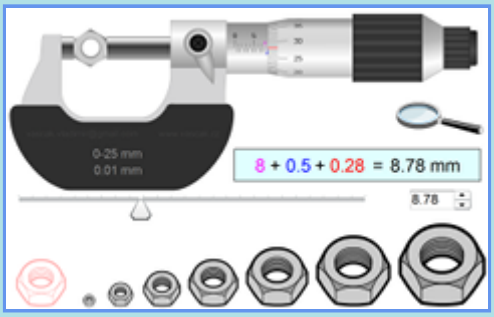
Rovnobežník síl



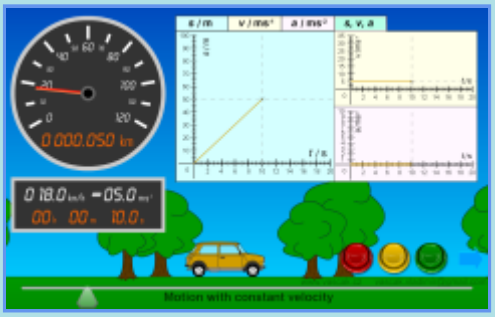
Posuvné meradlo



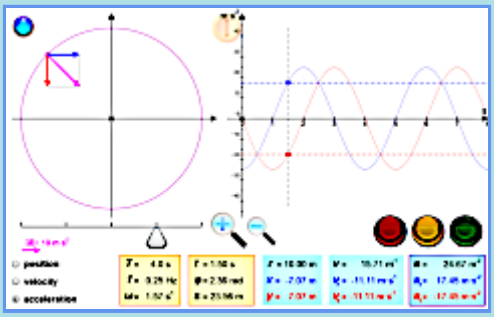
Mikrometer



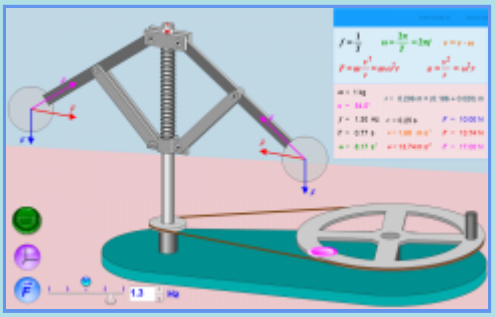
Pohyb



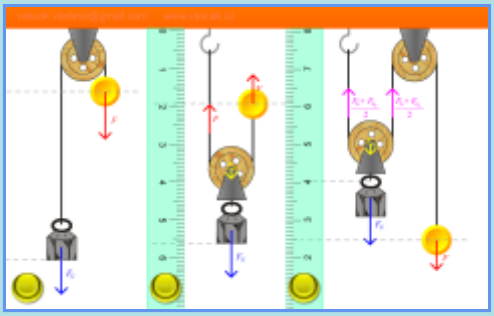
Rovnomerný pohyb po kružn...



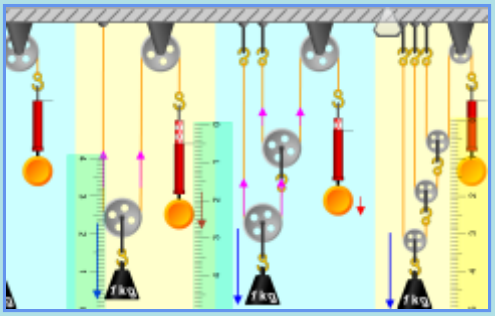
Wattov odstredivý regulát...



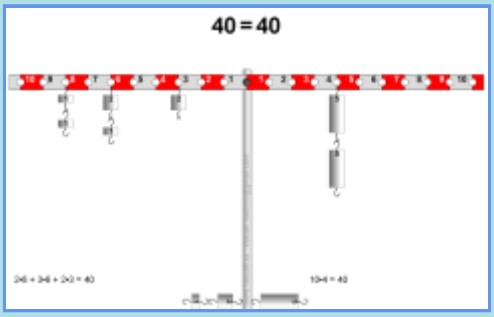
Kladka pevná a voľná



Kladkostroj



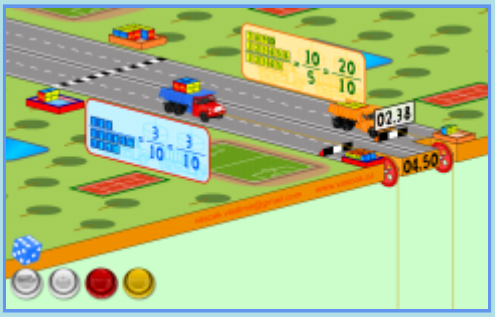
Zákon páky



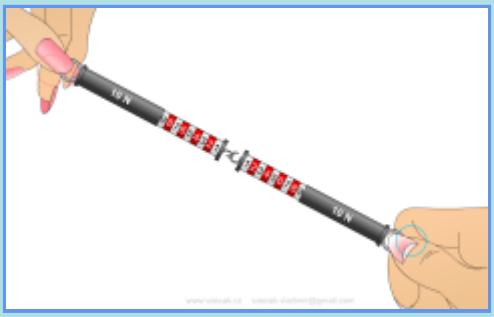
1. Newtonov pohybový záko...

2. Newtonov pohybový záko...

2. Newtonov pohybový záko...



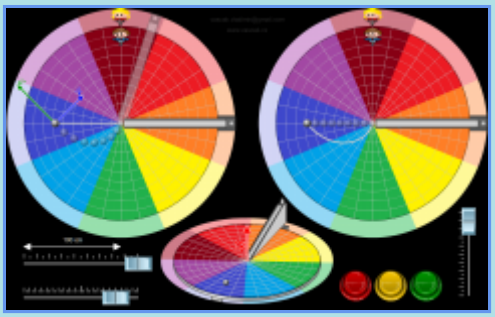
3. Newtonov pohybový zákon...



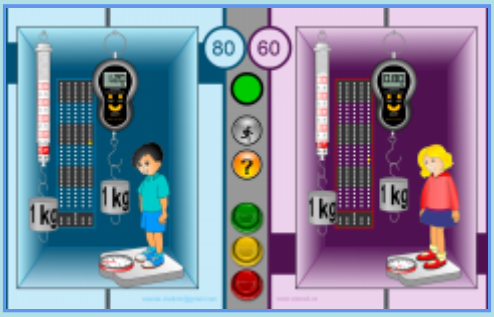
Zotrvačná sila

Odstredivá sila

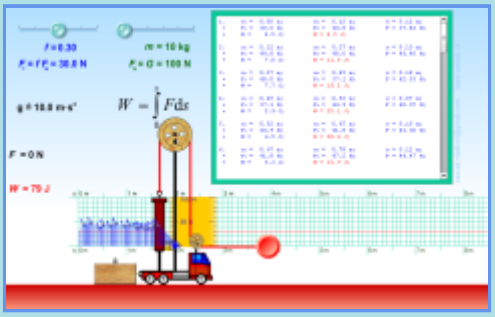
Coriolisova sila



Výťah

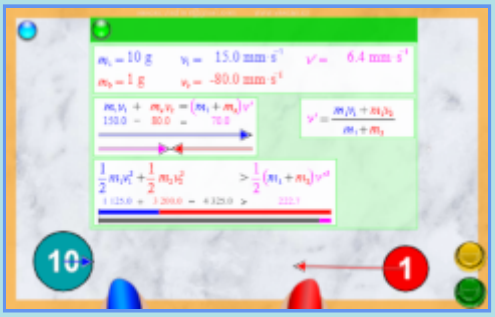


Mechanická práca

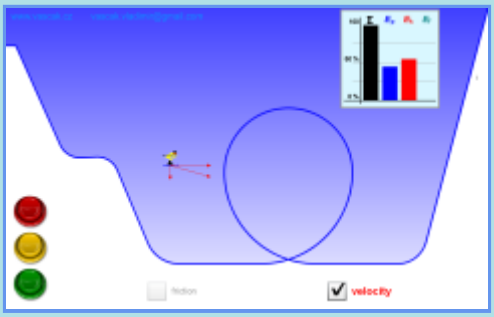


Pružná zrážka

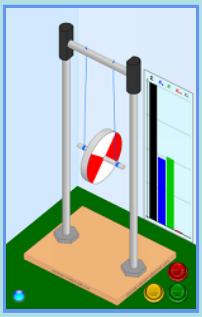
Nepružná zrážka



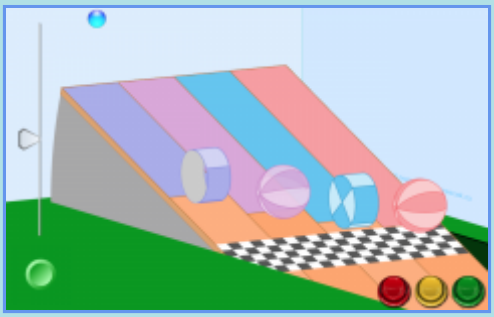
Zákon zachovania energie



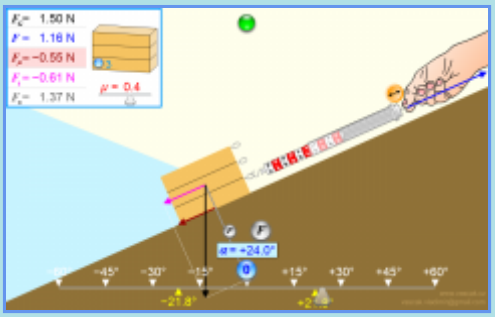
Maxwellovo kyvadlo



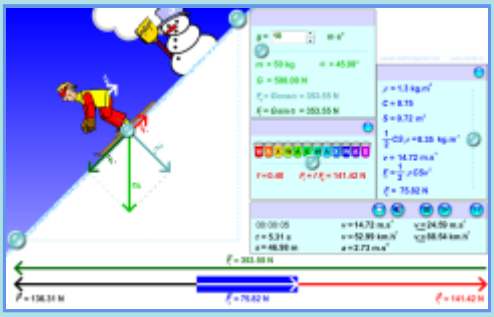
Moment zotrvačnosti



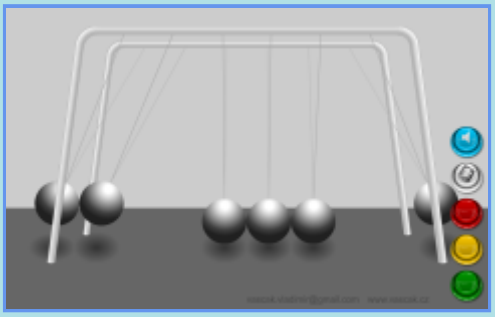
Trenie



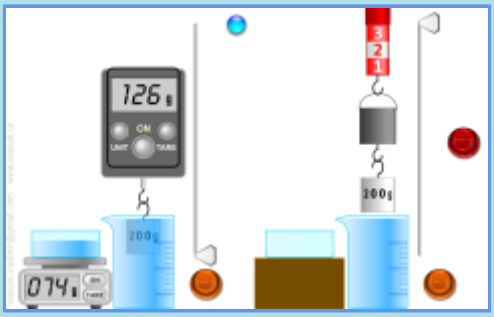
Trenie a odpor vzduchu



Newtonovo kyvadlo

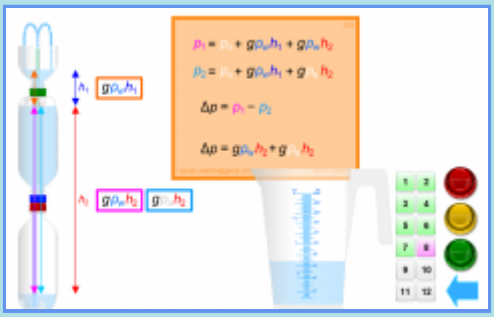


Archimedov zákon

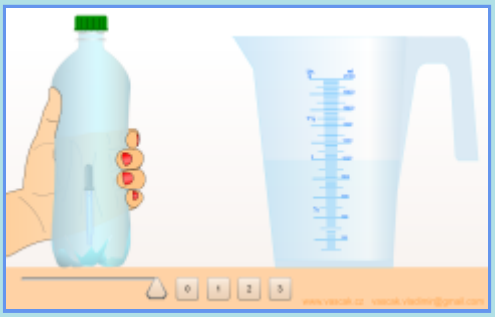


Hydrostatický tlak

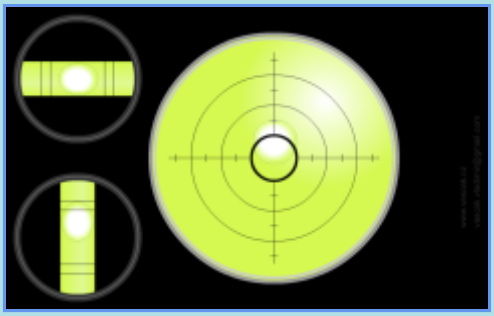
Herónova fontána



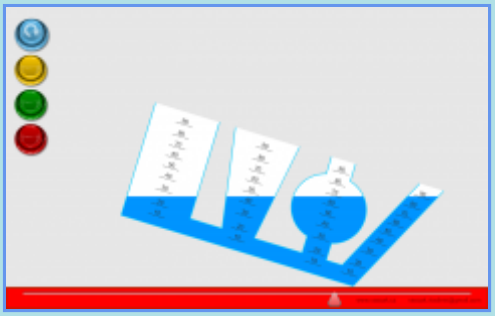
Karteziánsky potápač



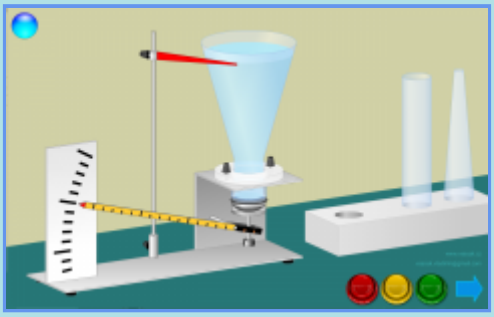
Vodováha



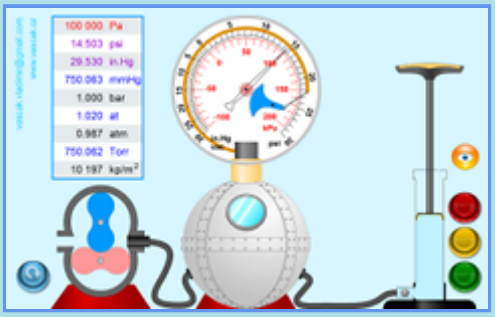
Spojené nádoby



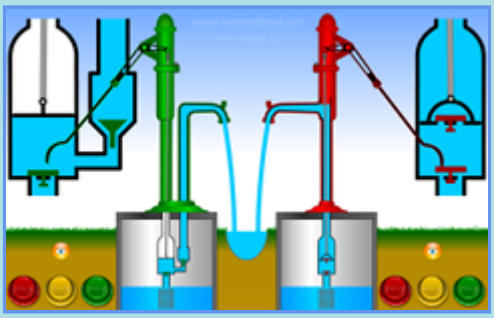
Hydrostatický paradox



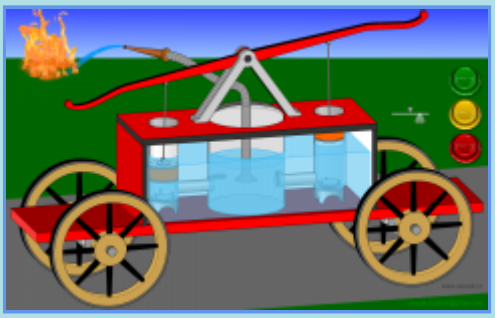
Tlak



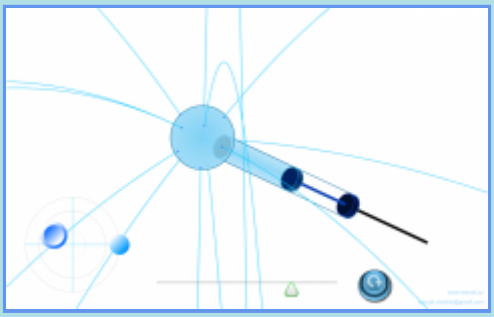
Pumpa



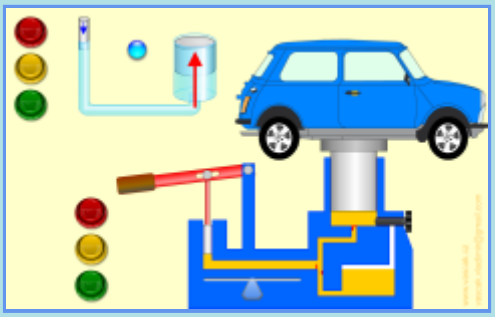
Ktésibios - hasičské auto



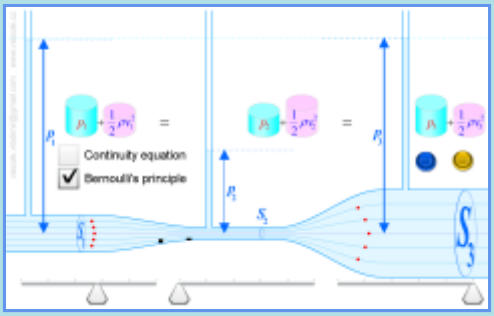
Pascalov zákon



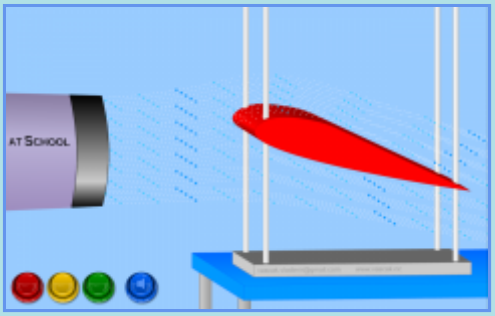
Hydraulický zdvihák



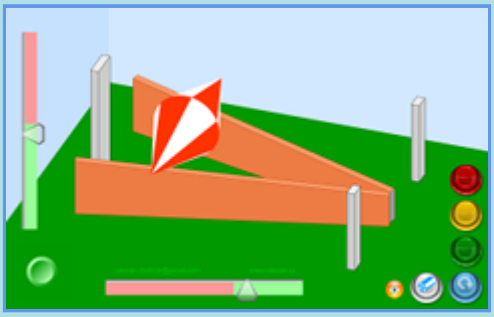
Bernoulliho rovnica



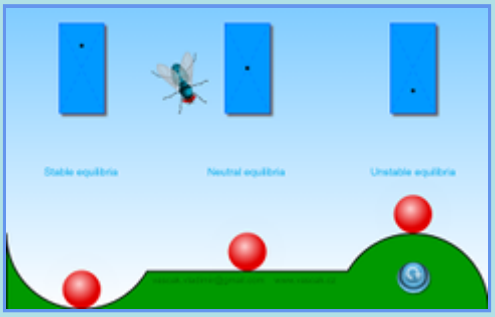
Dynamický vztlak



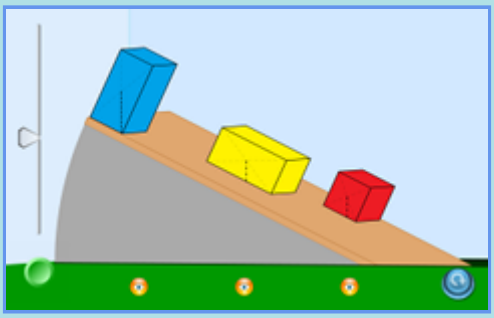
Ťažisko



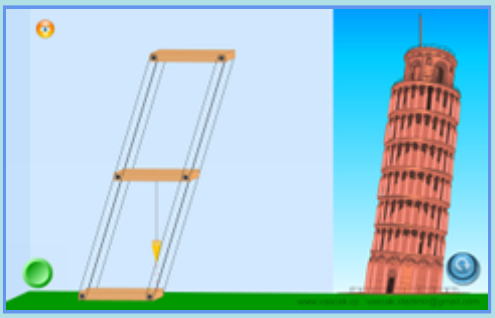
Stabilita telies 1



Stabilita telies 2

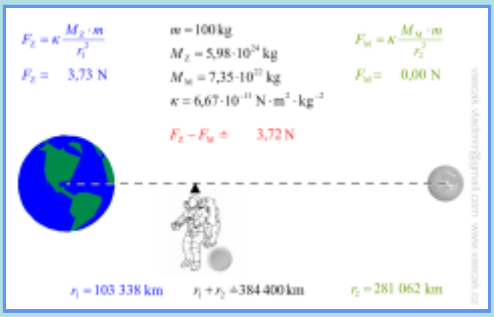


Stabilita telies 3

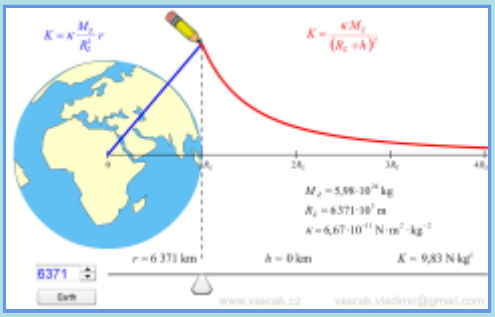


Gravitačné pole

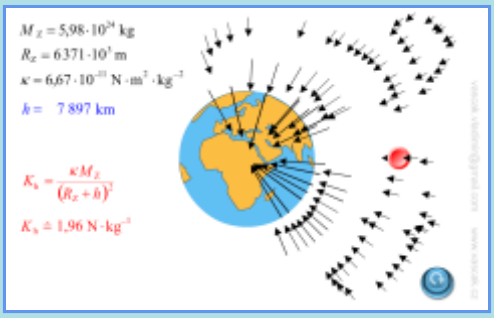
Newtonov gravitačný zákon



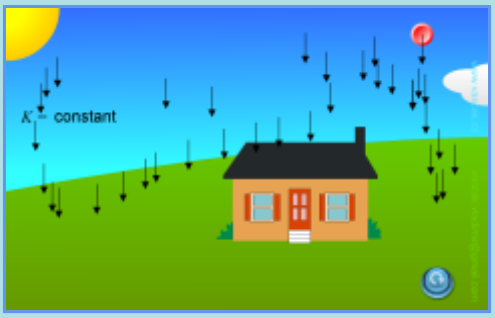
Intenzita gravitačného po...



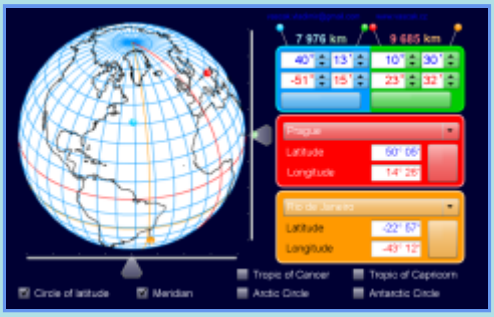
Centrálne gravitačné pole



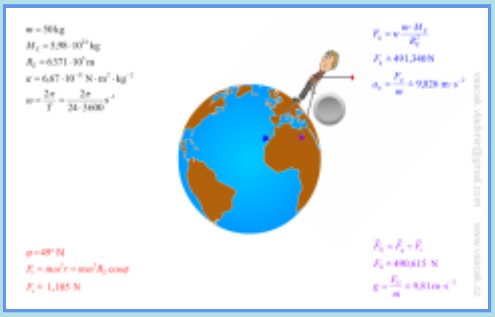
Homogénne gravitačné pole



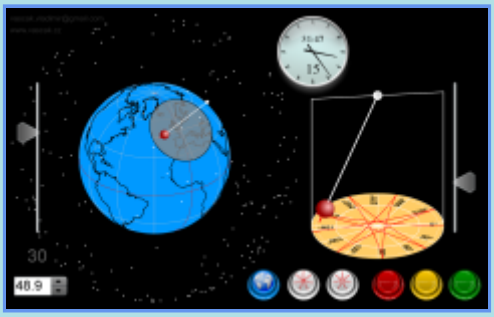
Geografický súradnicový s...



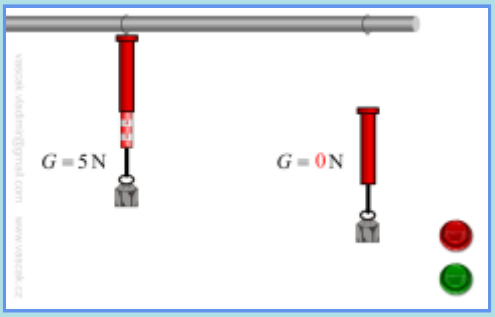
Tiažové zrýchlenie



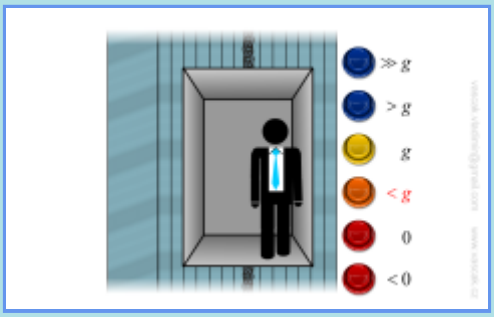
Foucaultovo kyvadlo



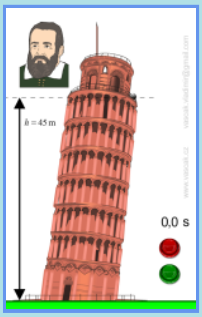
Beztiažový stav



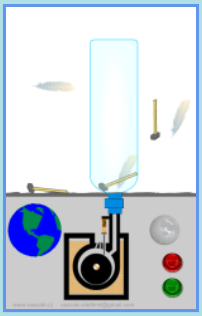
Super výťah



Voľný pád

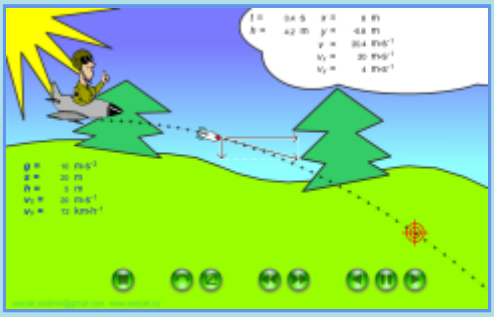


Newtonova trubica

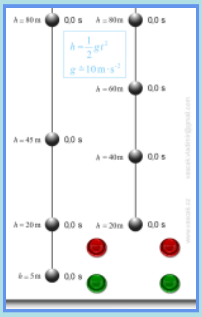


Skladanie pohybov

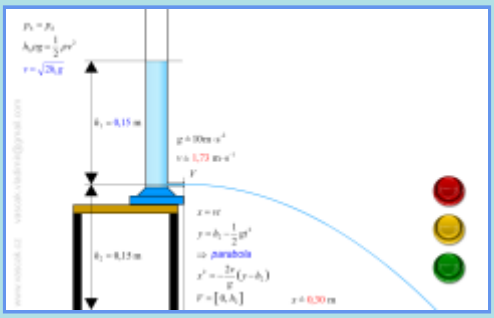
Vrh vodorovný



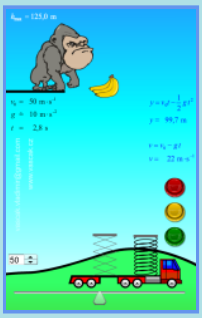
Padostroj



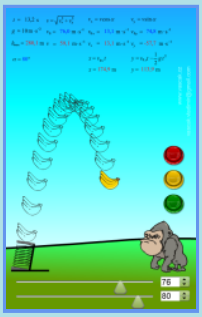
Výtok kvapaliny otvorom



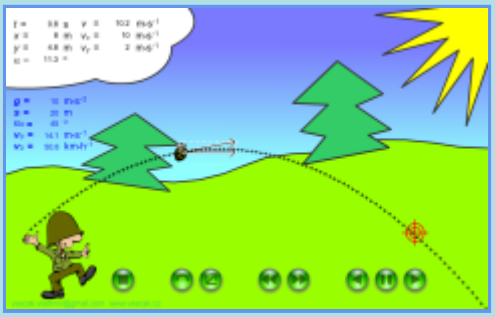
Vrh zvislý



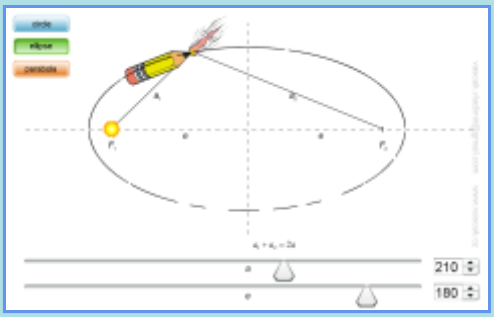
Vrh šikmý



Vrh šikmý - ručný granát



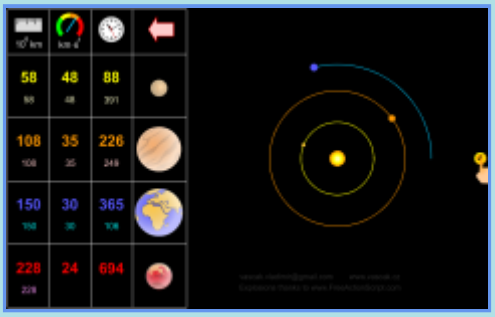
Trajektórie telies



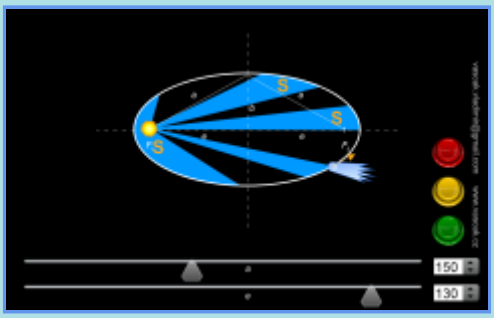
Newtonov kanón

Geostacionárna družica

1. Keplerov zákon



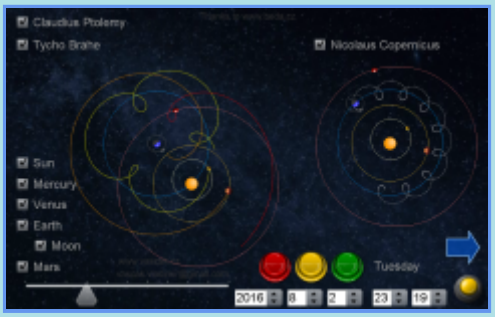
2. Keplerov zákon



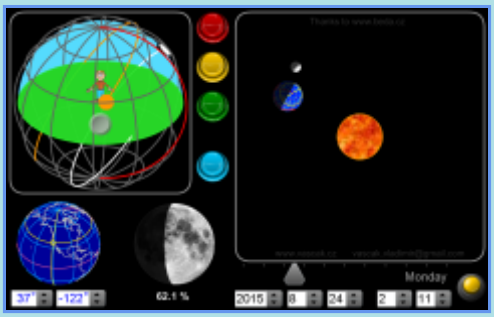
3. Keplerov zákon – vnúto...

3. Keplerov zákon - vonka...

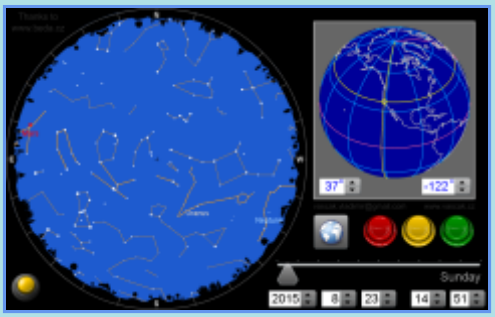
Slnečná sústava



Fáza Mesiaca

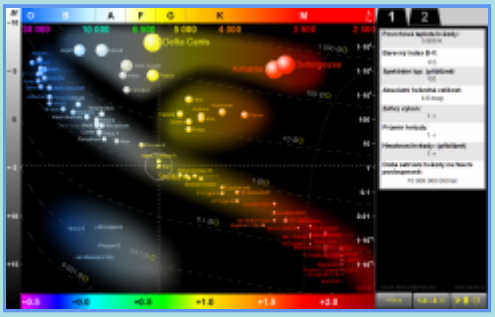


Súhvezdie



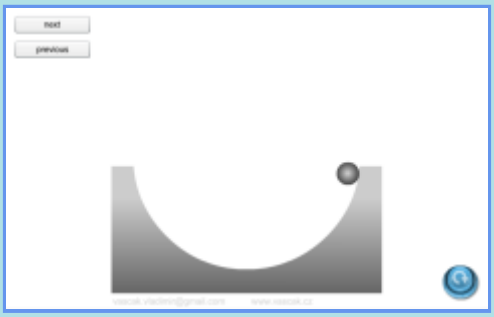
Keplerove zákony

Hertzsprungov-Russellov d...

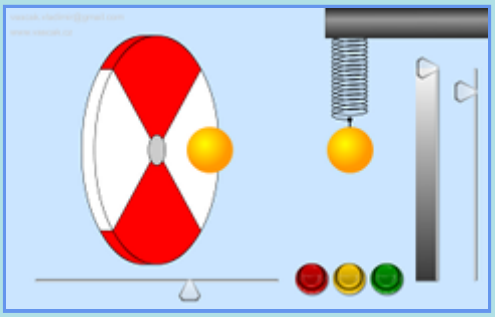


Mechanické kmitanie a vlnenie

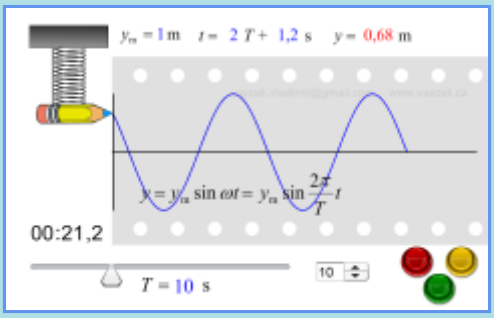
Oscilátory



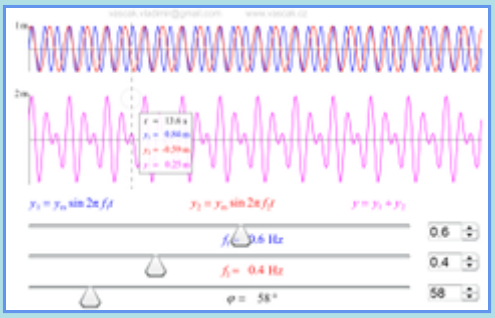
Pohyb po kružnici



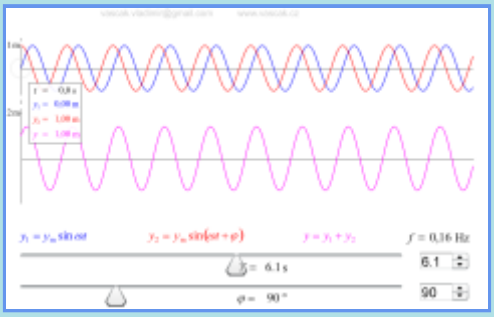
Harmonické kmitanie



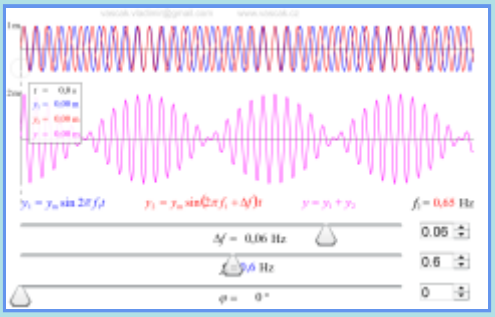
Skladanie kmitov



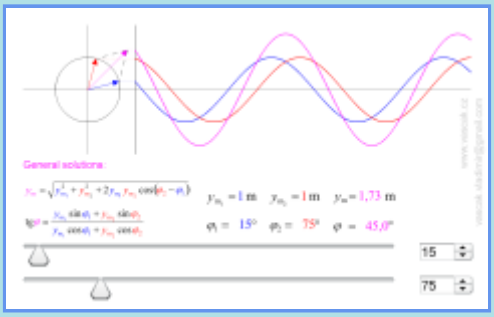
Skladanie kmitov rovnakej...



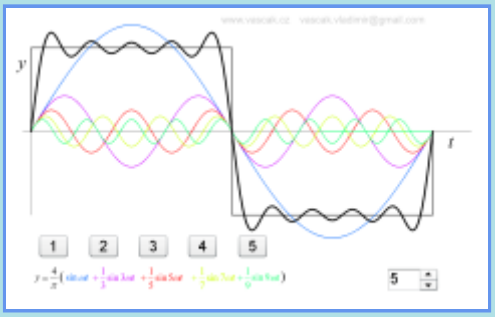
Skladanie kmitov blízkej ...



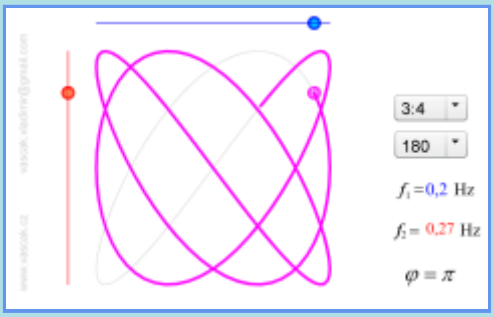
Fáza kmitavého pohybu



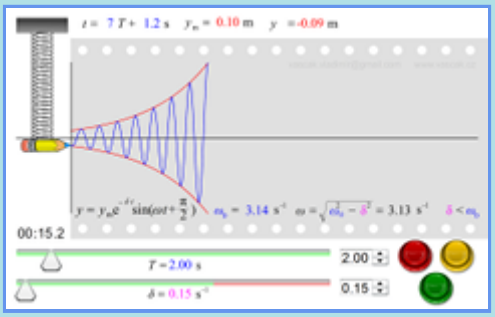
Obdĺžnikový kmit



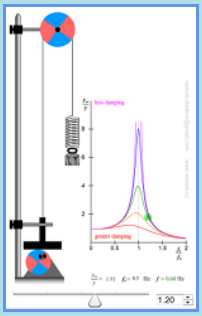
Lissajousovy obrazce



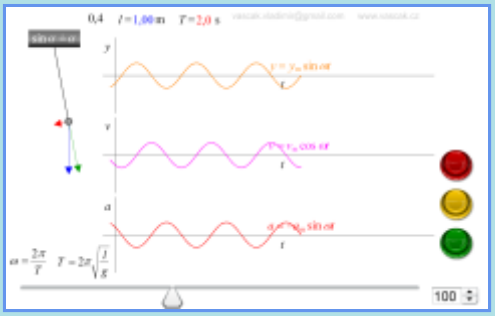
Tlmené kmity



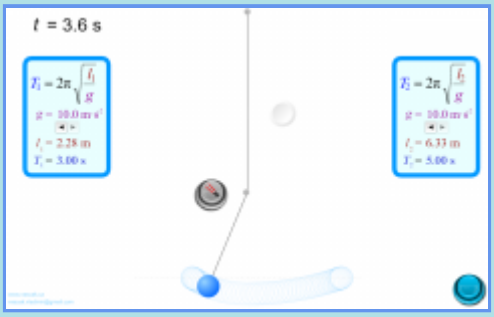
Nútené kmitanie



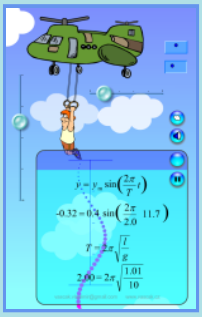
Matematické kyvadlo



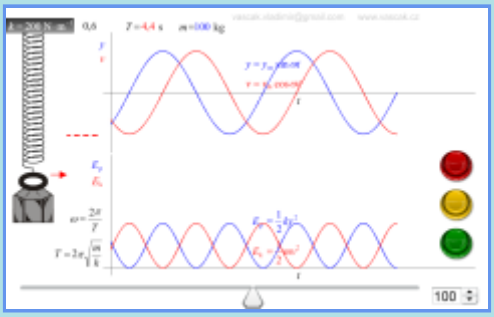
Matematické kyvadlo - Kli...



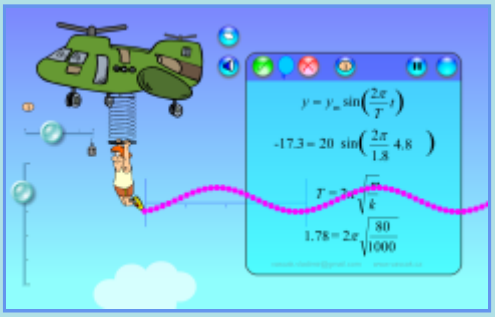
Matematické kyvadlo - Hel...



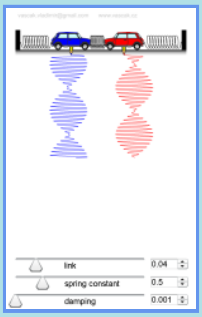
Mechanický oscilátor



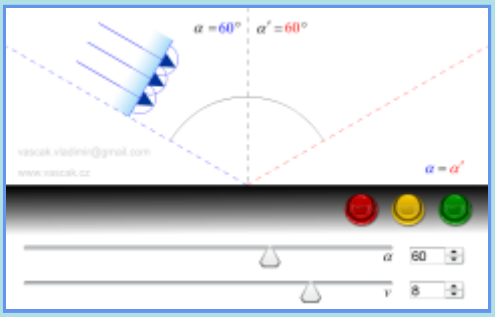
Mechanický oscilátor - He...



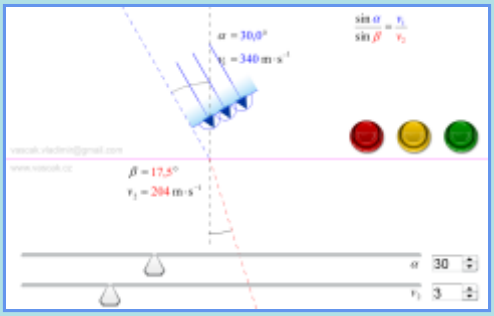
Spriahnuté oscilátory



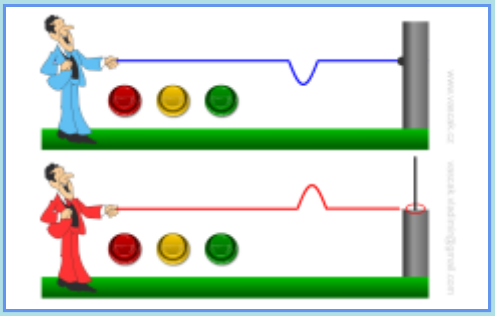
Odraz vlnenia



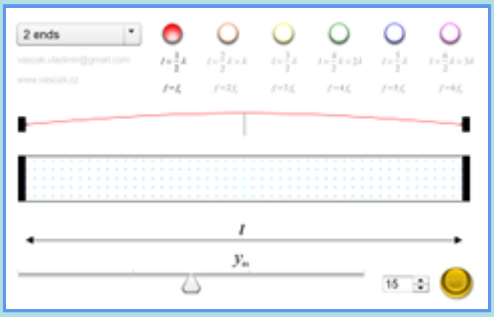
Lom vlnenia



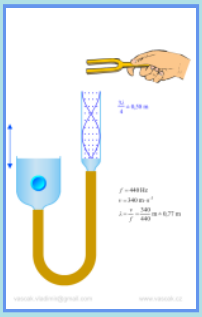
Odraz na konci



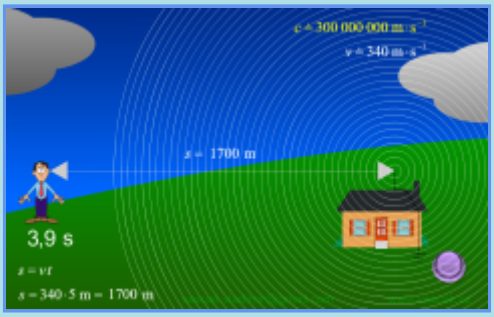
Stojaté vlnenie



Rezonancia



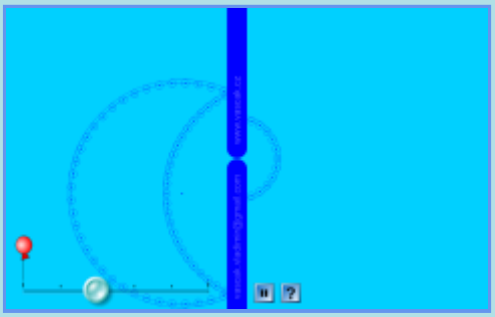
Rýchlosť zvuku



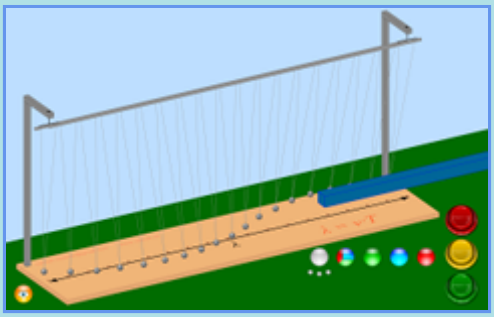
Dopplerov jav

Rázová vlna

Huygensov princíp



Vlnostroj



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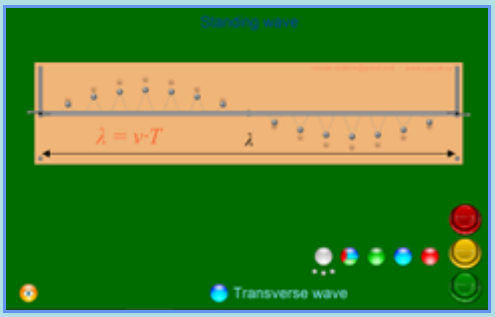
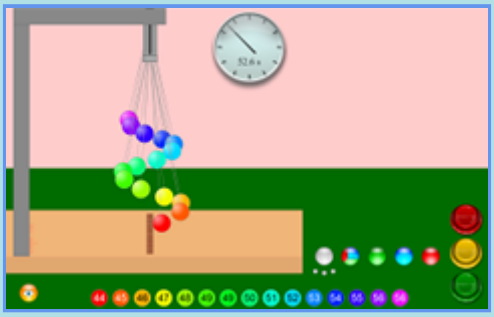
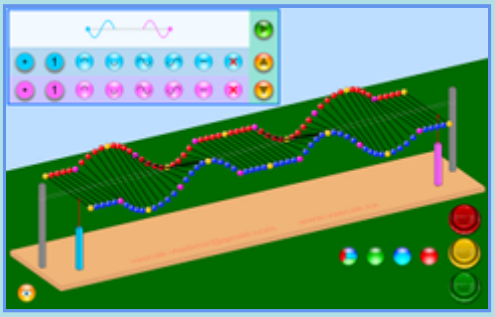


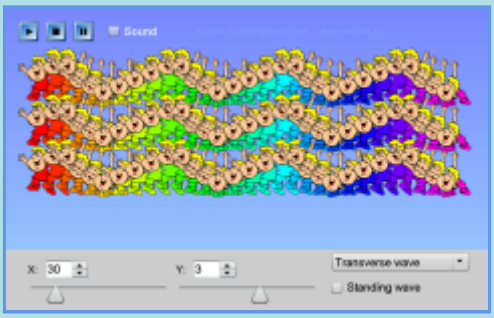
Machov vlnostroj



Juliánov vlnostroj



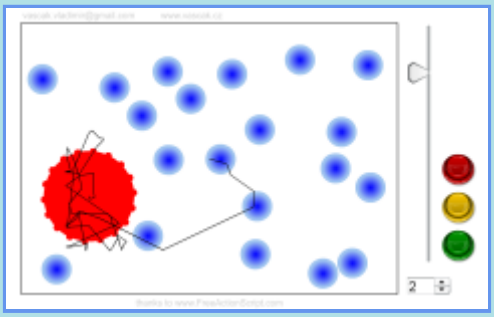
Vlnenie



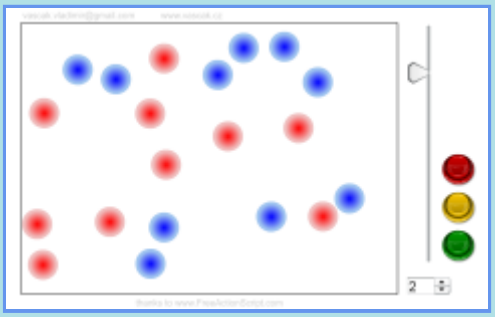
Zvuk

Molekulová fyzika a termika

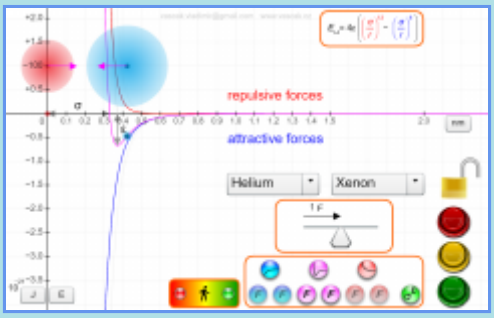
Brownov pohyb



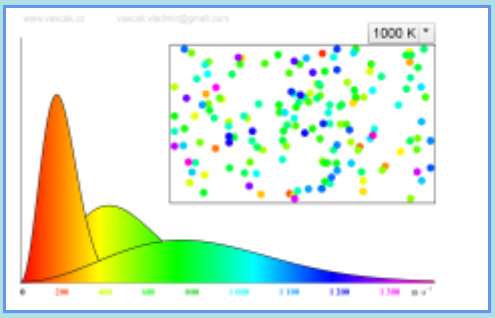
Difúzia



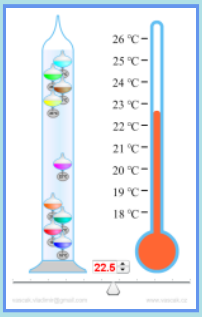
Interakcia medzi atómami



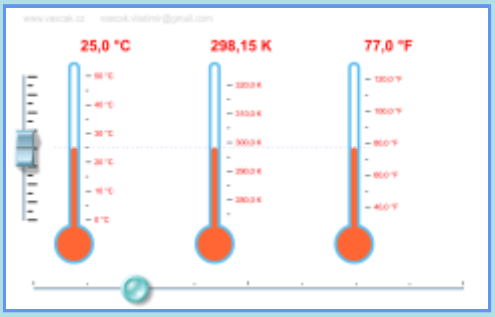
Maxwellovo rozdelenie mol...



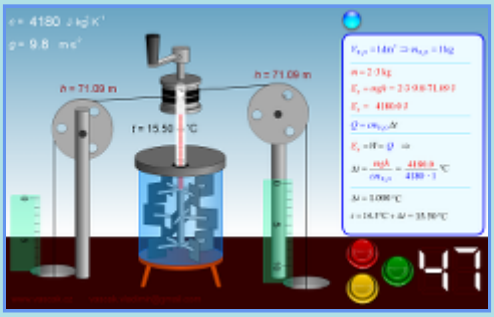
Galileov teplomer



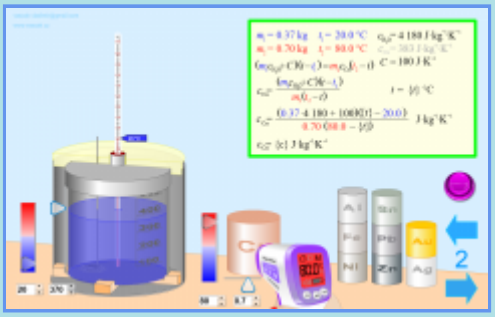
Teplotné stupnice



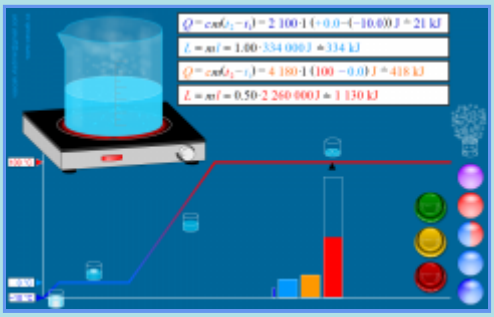
Joulov pokus



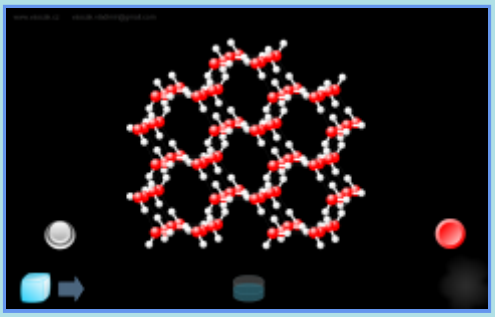
Kalorimeter



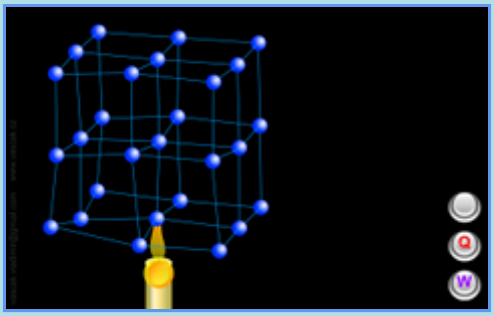
Skupenstvo



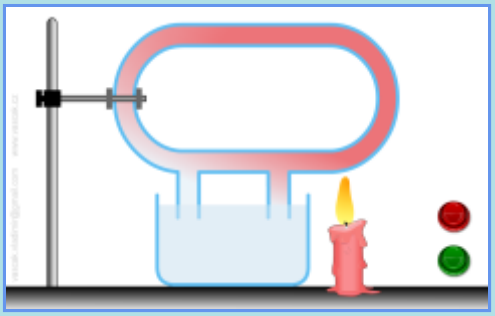
Skupenstvo - voda



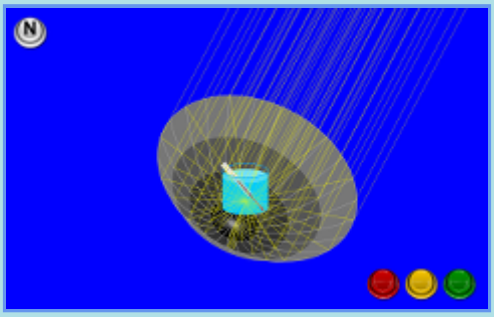
Vnútorná energia



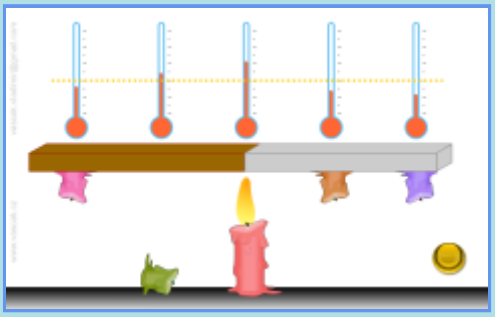
Prenos energie prúdením



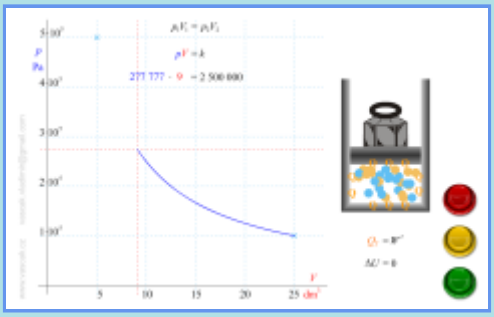
Prenos energie žiarením



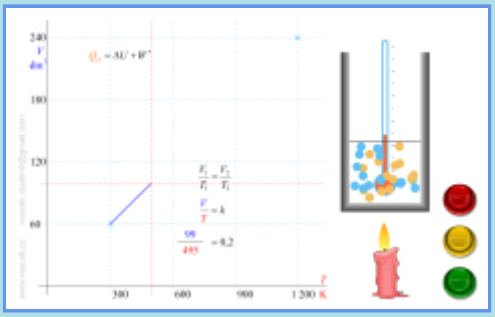
Prenos energie vedením



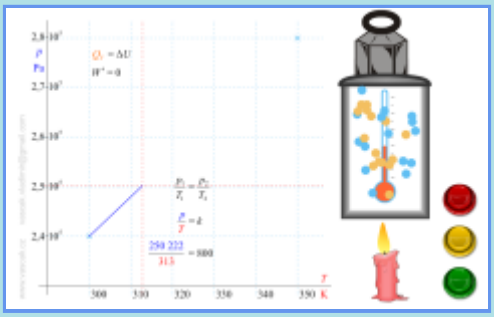
Izotermický dej – Boyleov...



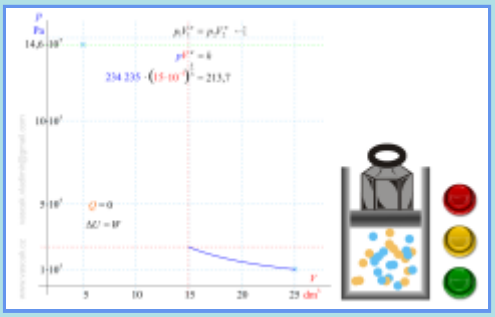
Izobarickom dej – Gay-Lus...



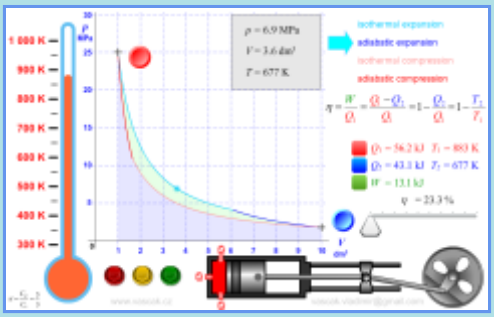
Izochorický dej – Charles...



Adiabatický dej

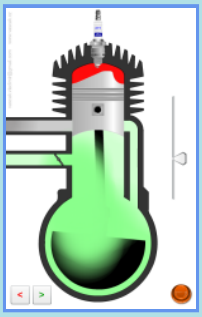


Carnotov cyklus

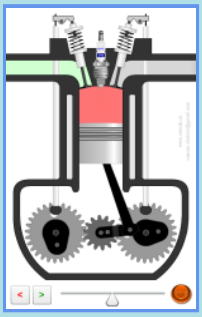


Parný rušeň

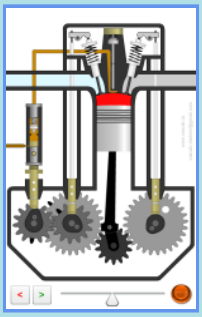
Dvojdobý motor



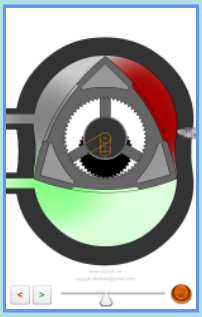
Štvordobý motor



Vznetový motor

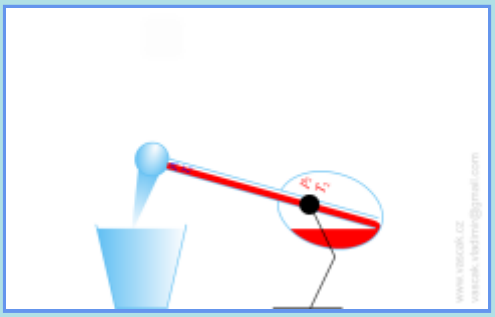


Wankelov motor

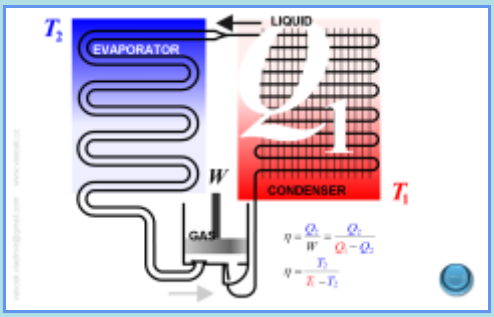


Perpetuum mobile

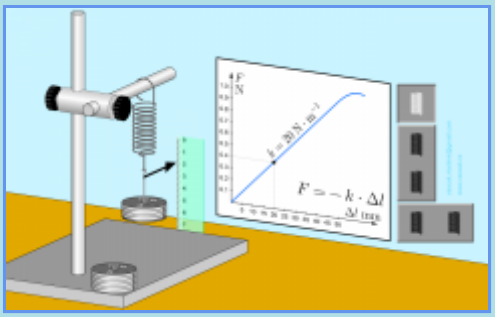
Hojdací bocian



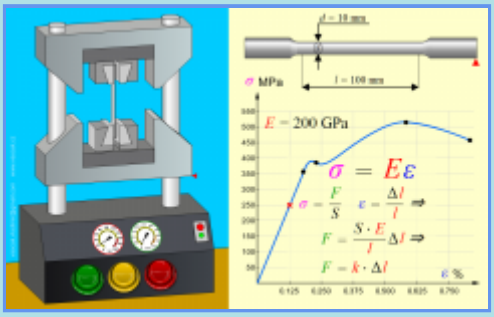
Chladnička



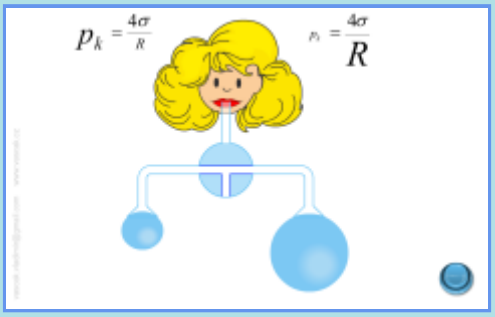
Hookov zákon - 1



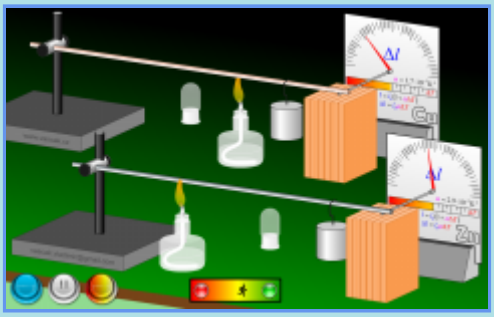
Hookov zákon - 2



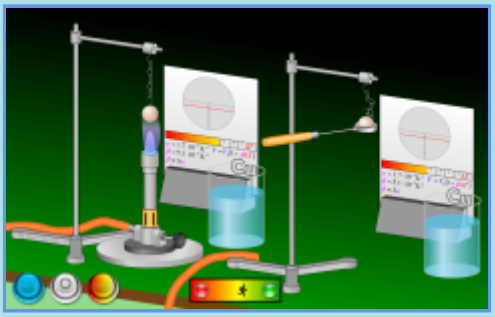
Kapilárny tlak



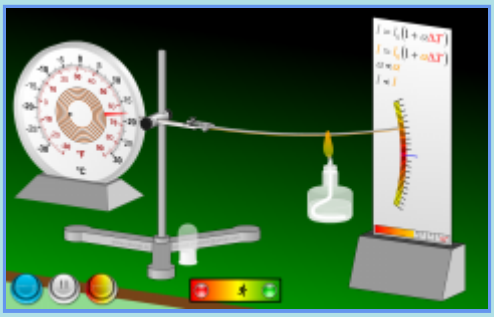
Tepelná rozťažnosť



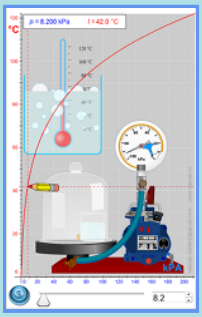
Tepelná rozťažnosť



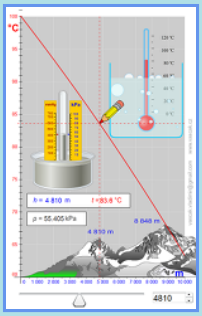
Bimetal



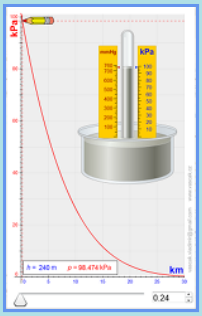
Teplota varu - Atmosféric...



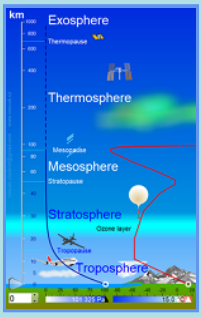
Teplota varu - Nadmorská ...



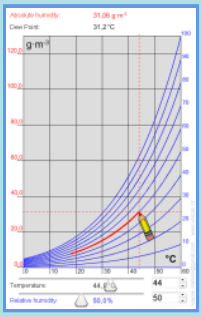
Atmosférický tlak - Nadmo...



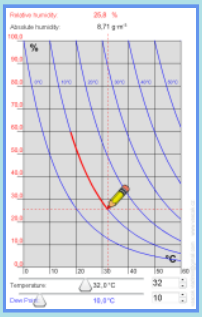
Atmosféra Zeme



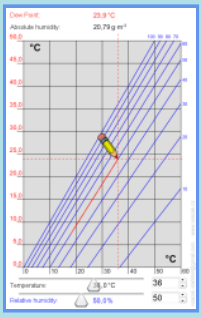
Absolútna vlhkosť



Relatívna vlhkosť

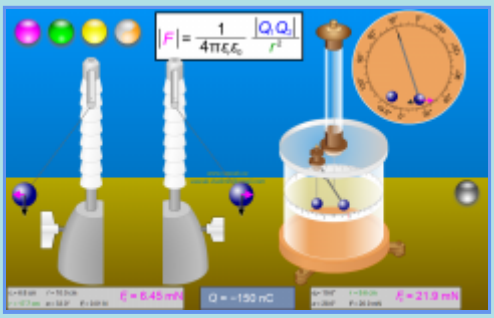


Rosný bod

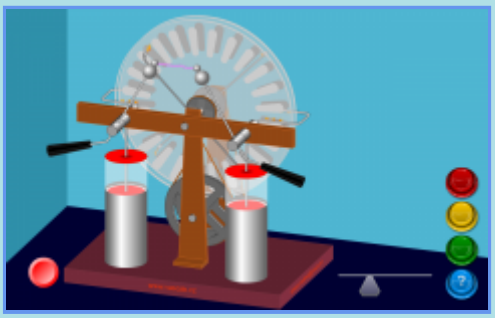


Elektrostatika

Coulombov zákon

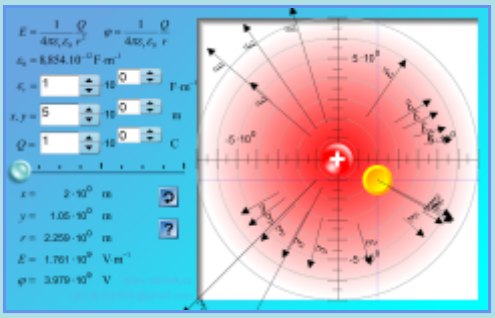


Wimshurstov generátor

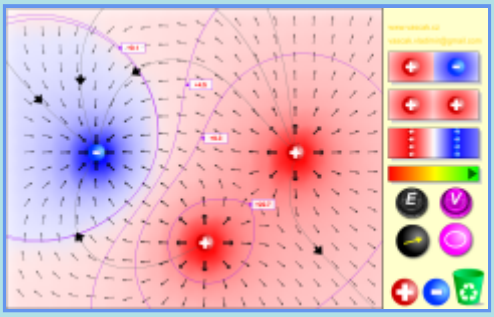


Van de Graaffov generátor

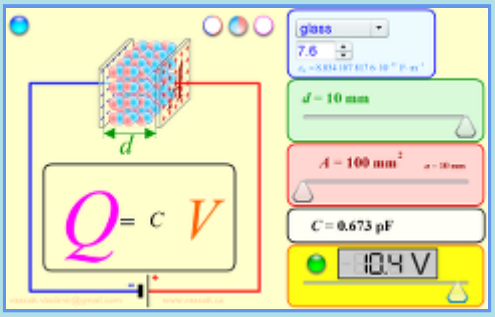
Elektrické pole



Náboj a polia

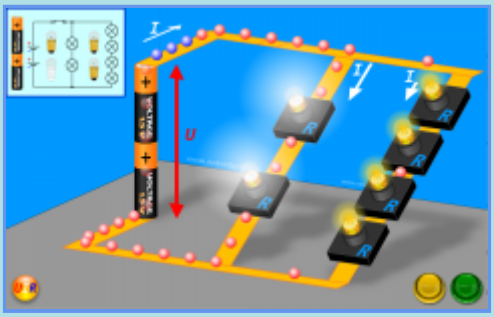


Kondenzátor

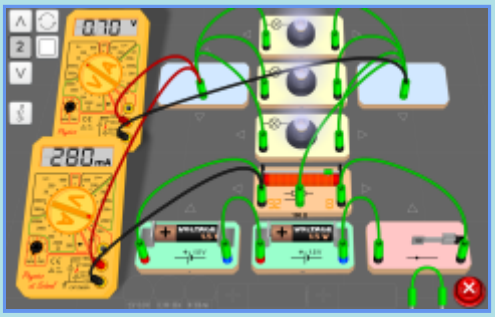


Elektrický prúd

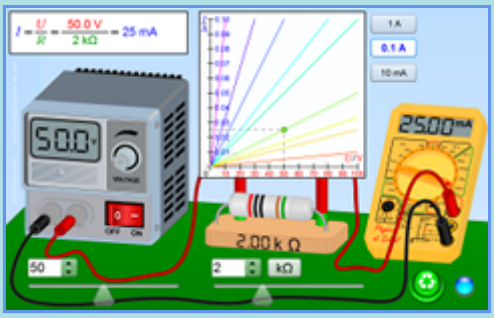
Napätie, prúd a odpor



Elektrický obvod

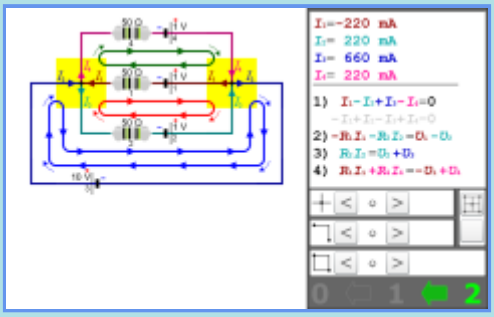


Ohmov zákon

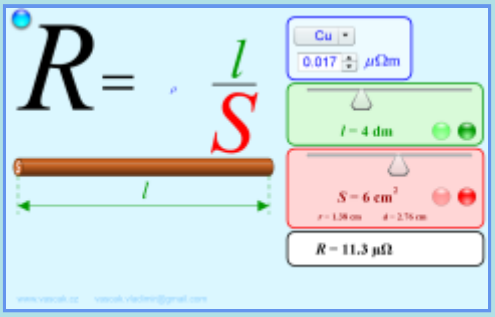


Vnútorný odpor

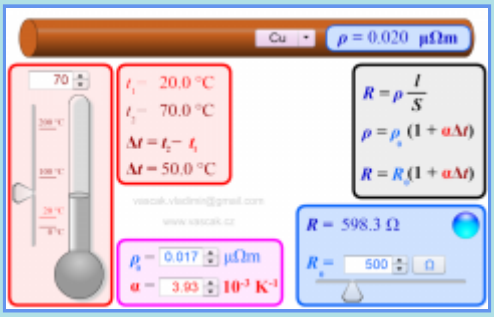
Kirchhoffove zákony



Elektrický odpor

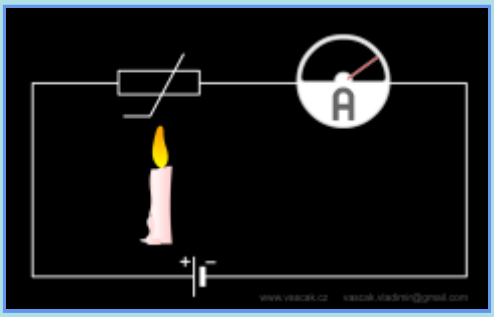


Teplotný súčiniteľ elektr...

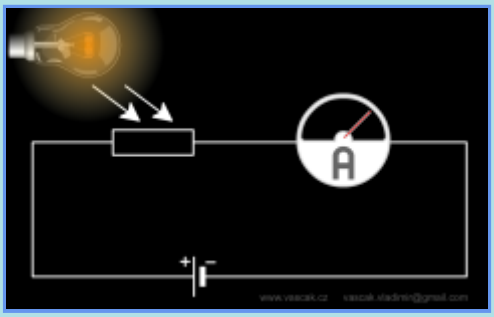


Polovodiče

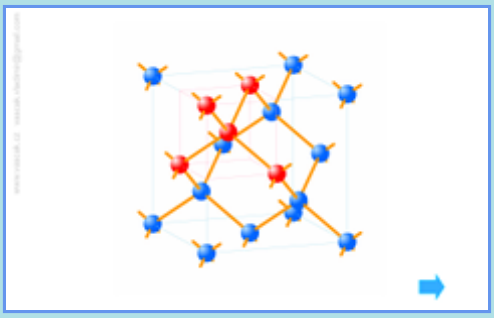
Termistor



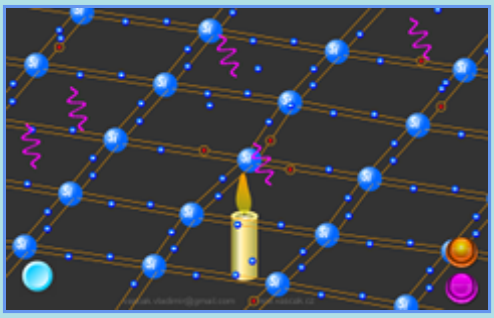
Fotorezistor



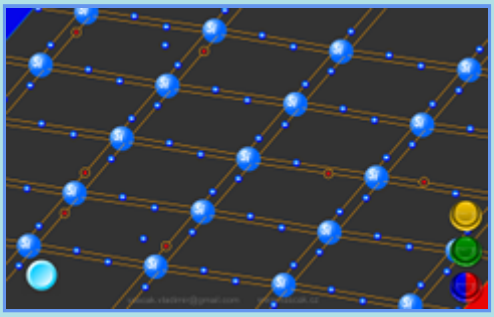
Kremík



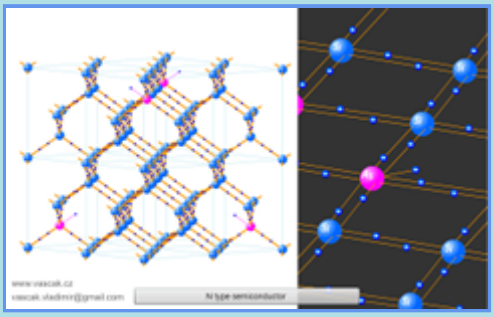
Generácia páru elektrón d...



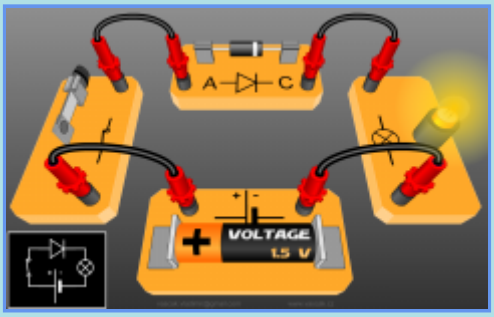
Vlastná vodivosť



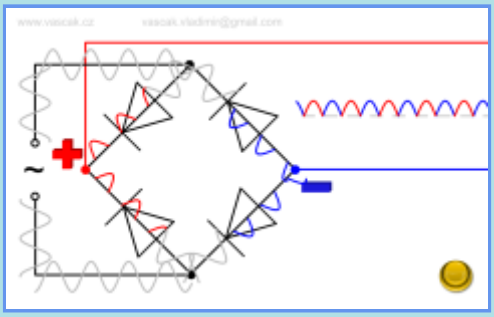
Polovodiče



Dióda

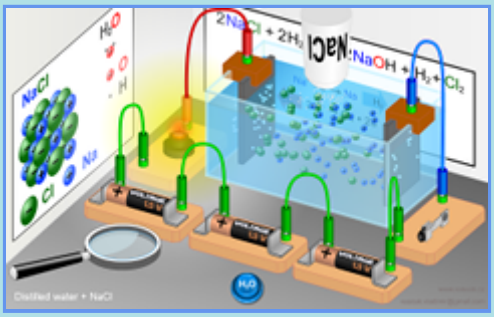


Grätzovo zapojenie

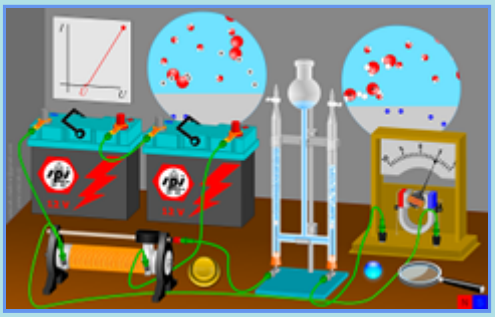


Elektrický prúd v kvapalinách

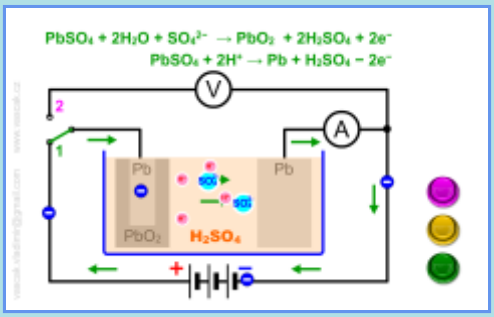
Disociácia



Elektrolýza

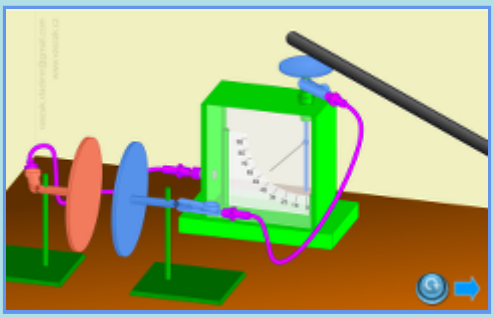


Olovený akumulátor

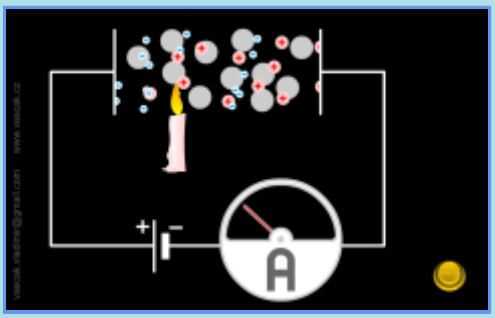


Elektrický prúd v plynoch a vo vákuu

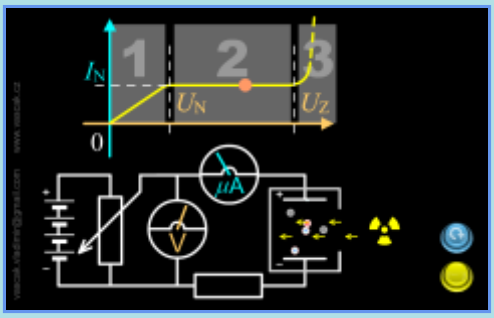
Ionizácia - vybíjanie ele...



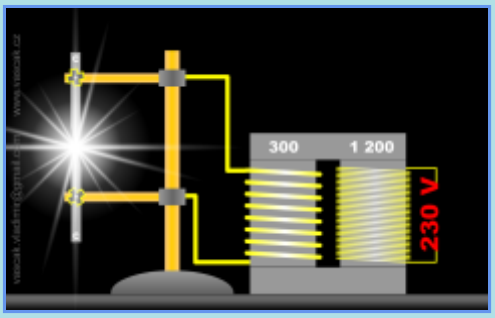
Nesamostatný výboj



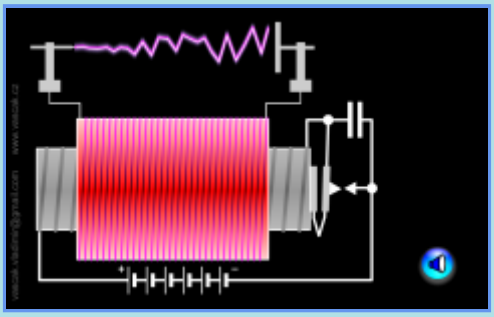
Voltampérová charakterist...



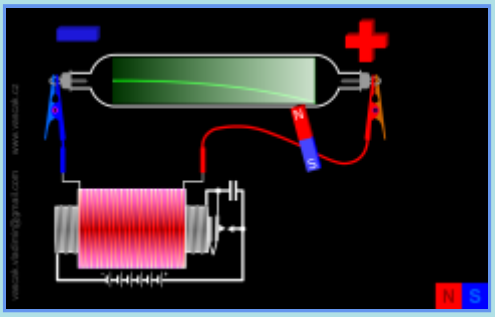
Oblúkový výboj



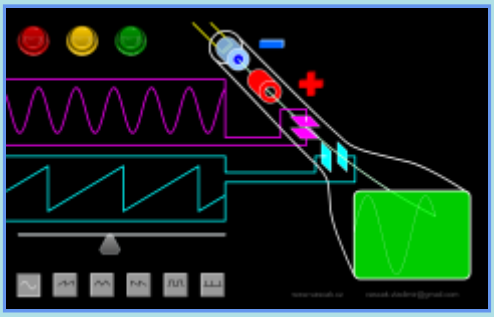
Ruhmkorffův induktor



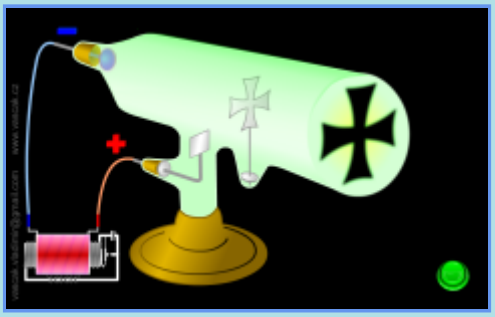
Katódové žiarenie



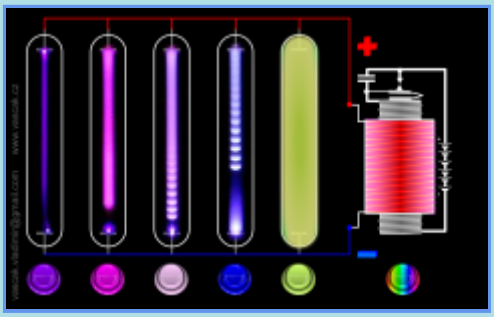
Osciloskop



Katódová trubica - Maltéz...

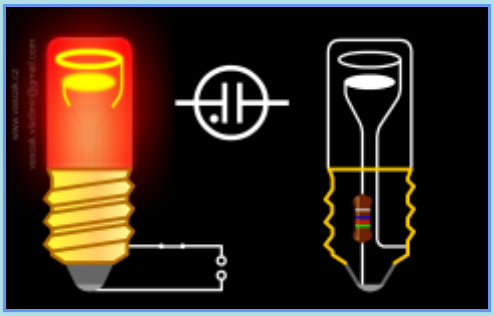


Výboj pri zníženom tlaku

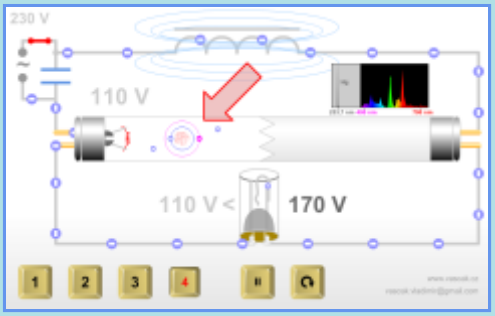


Oheň svätého Eliáša

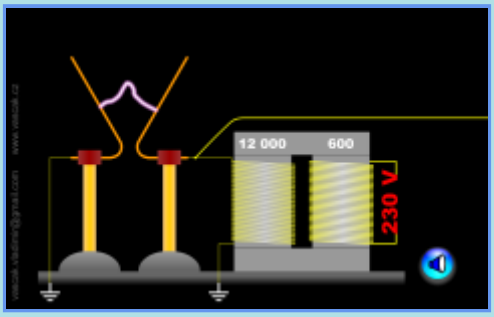
Tlejivka



Žiarivka

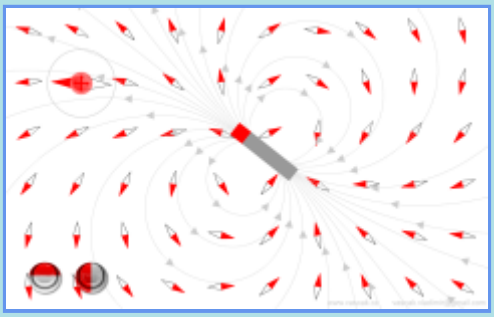


Ochrana pred bleskom

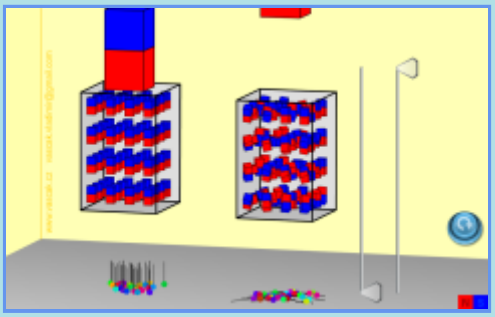


Magnetické pole

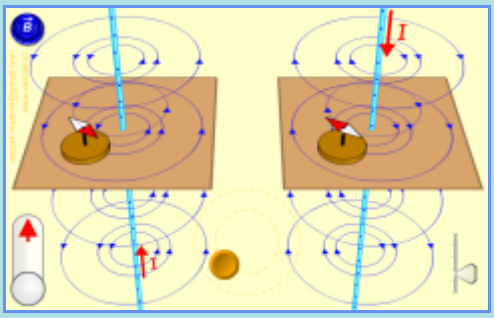
Magnet



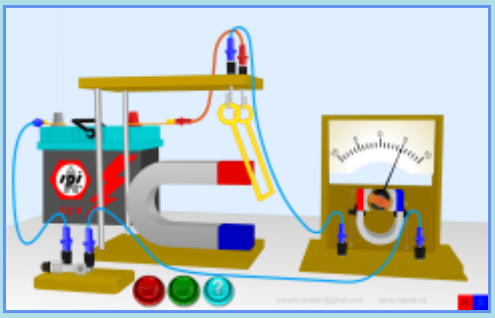
Feromagnetizmus



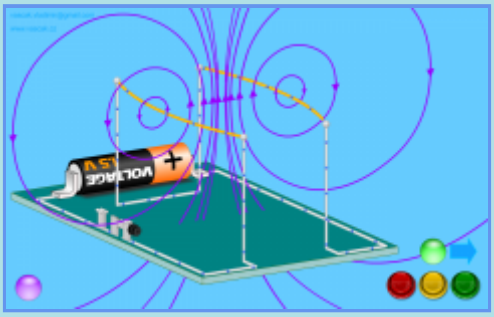
Magnetické pole priameho ...



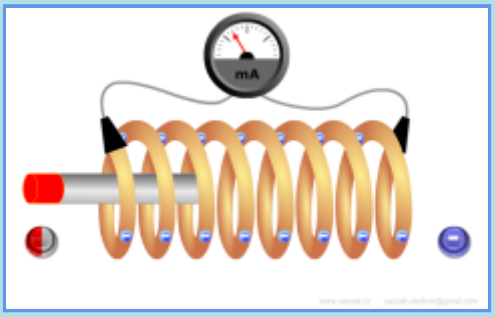
Flemingovo pravidlo ľavej...



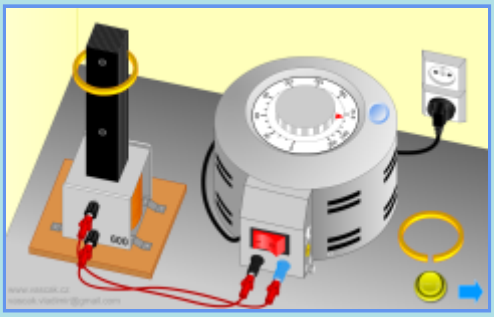
Ampérov zákon



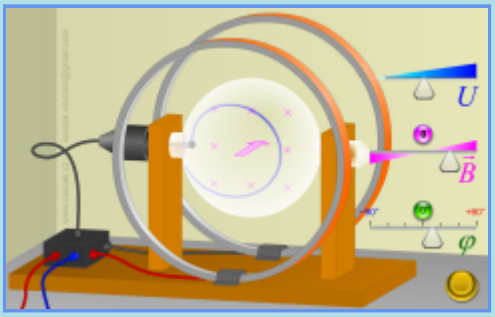
Elektromagnetická indukci...



Lenzov zákon

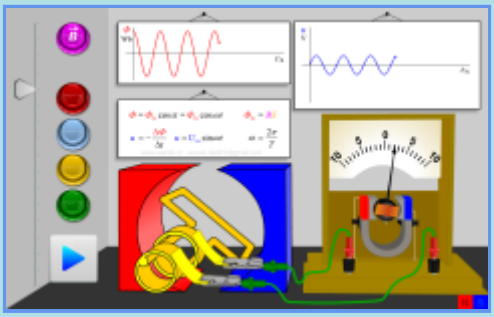


Wehneltova trubica

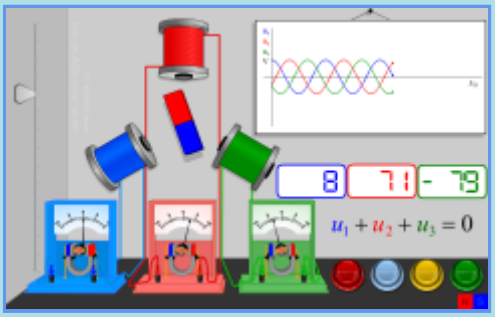


Striedavý prúd

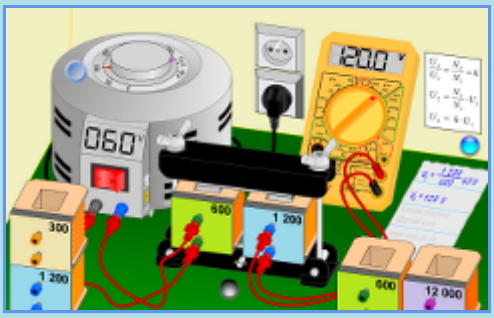
Alternátor a dynamo



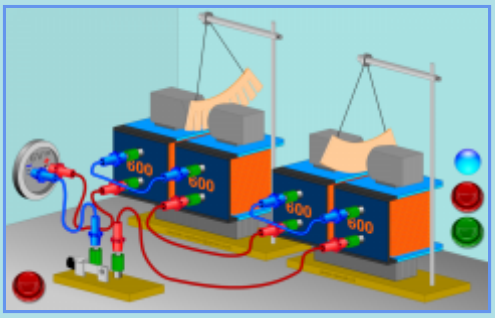
Trojfázový generátor



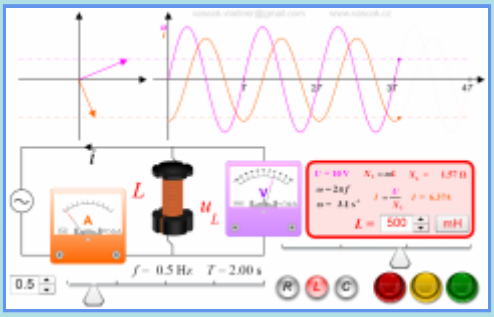
Transformátor



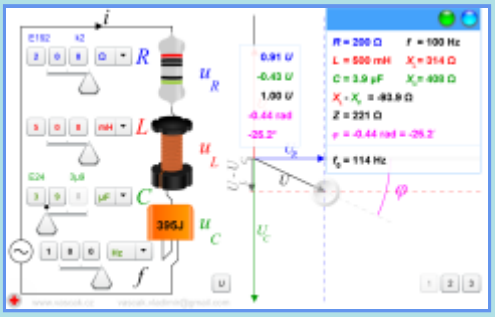
Waltenhofenovo kyvadlo



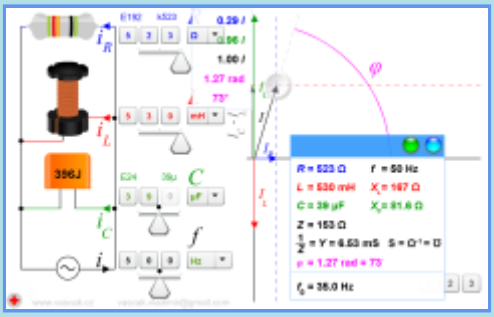
Jednoduché striedavé obvo...



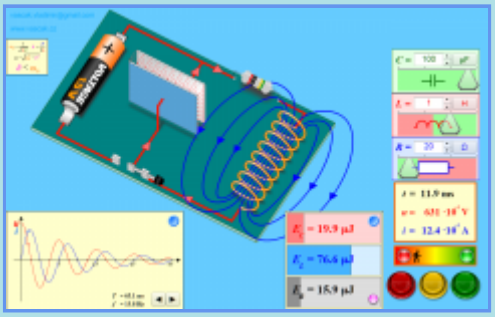
Sériový obvod RLC



Paralelný obvod RLC

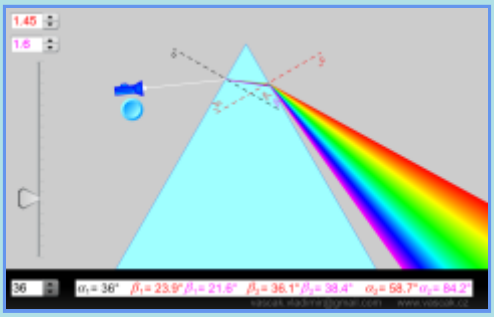


Elektromagnetický oscilač...

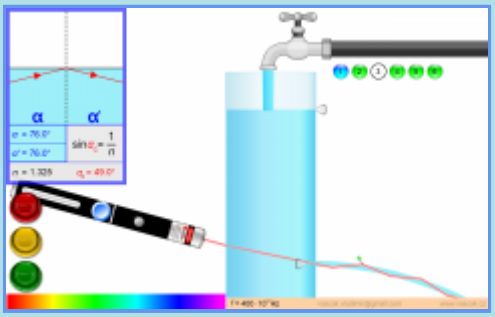


Optika

Optický hranol



Totálny odraz



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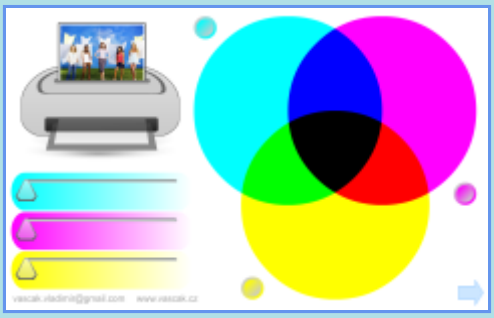
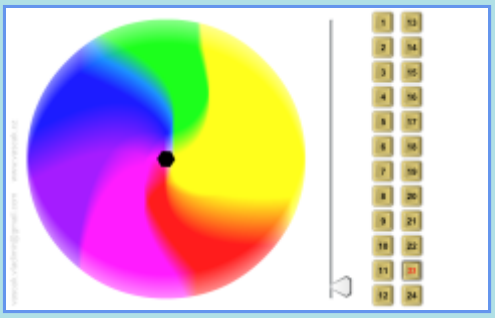
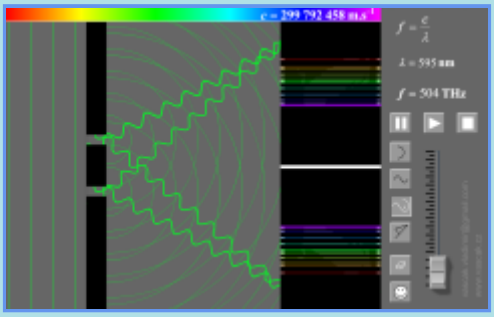


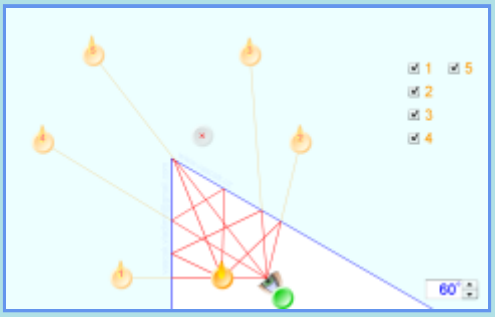
Newtonov kotúč



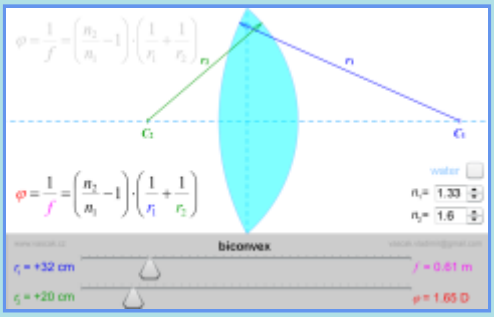
Youngov pokus



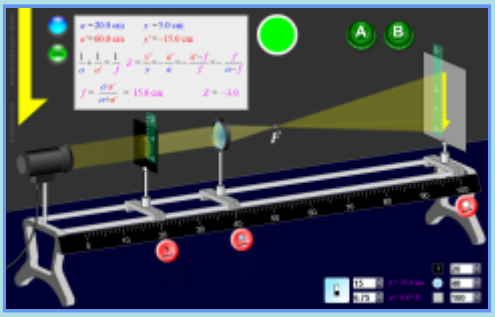
Zrkadlá



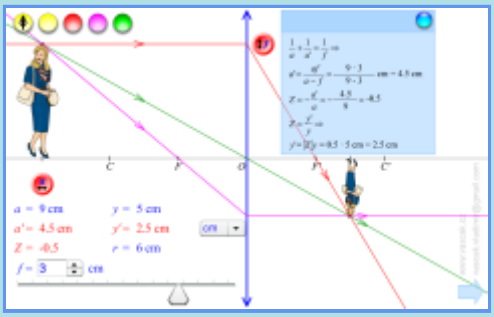
Šošovka



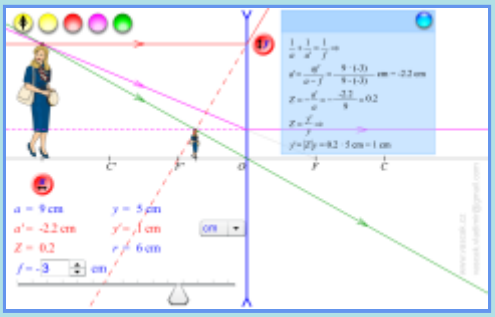
Ohnisková vzdialenosť



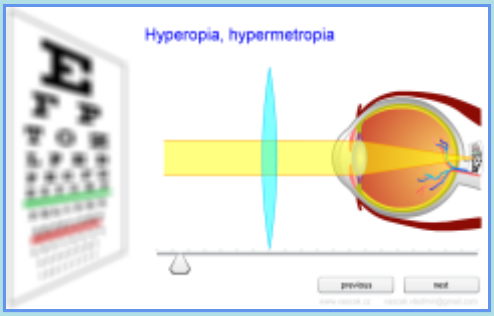
Spojka



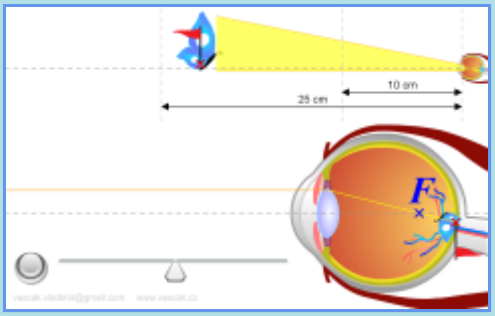
Rozptylka



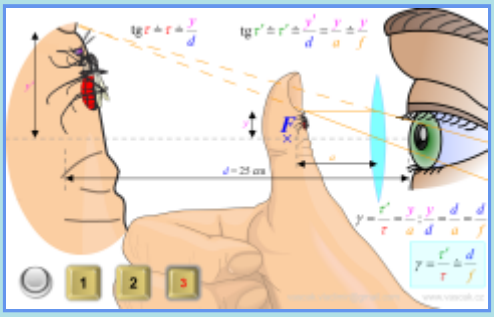
Očné vady



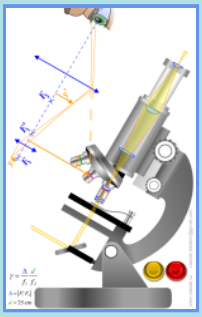
Akomodácia oka



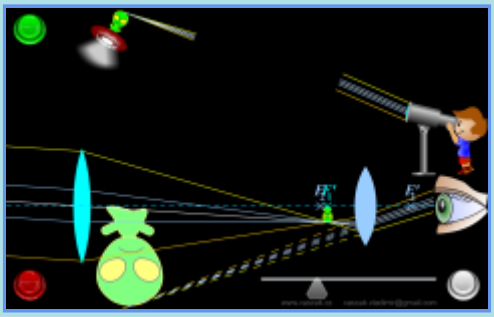
Lupa



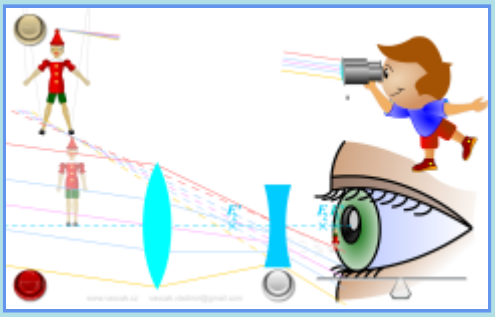
Mikroskop



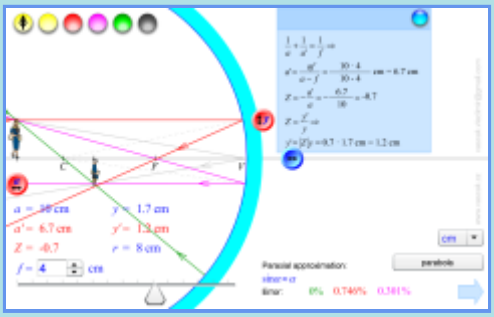
Keplerov ďalekohľad



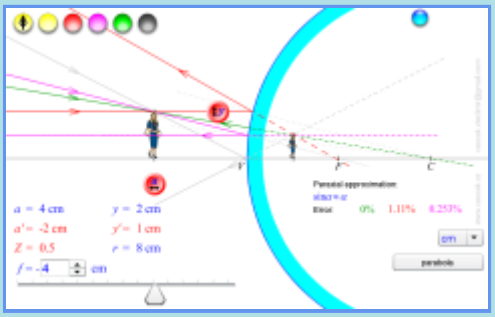
Galileov ďalekohľad



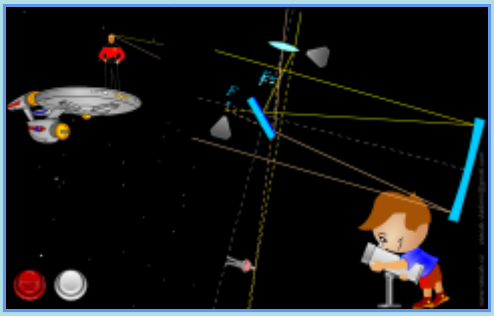
Duté (konkávne) zrkadlo



Vypuklé (konvexné) zrkadl...

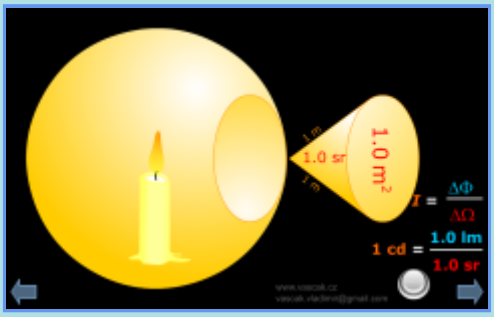


Newtonov ďalekohľad

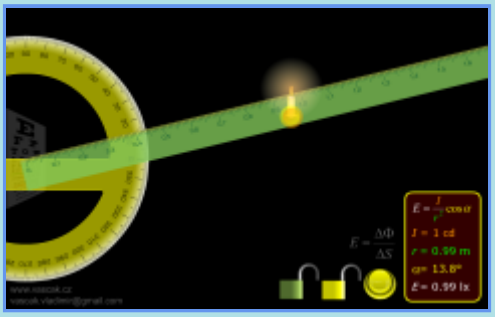


Svetelný tok

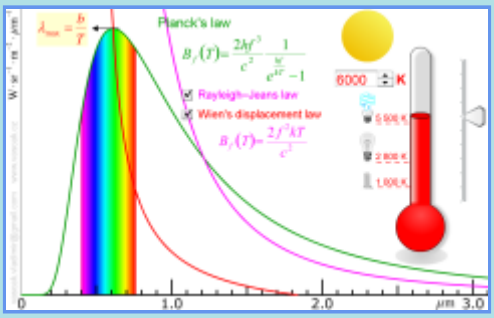
Svietivosť



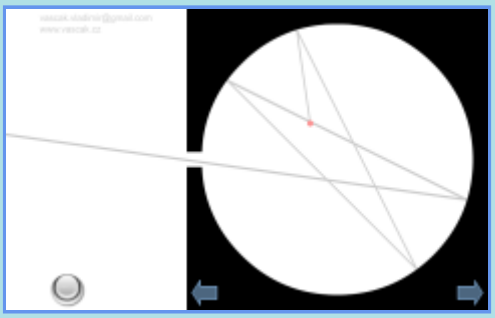
Osvetlenie



Absolútne čierne teleso

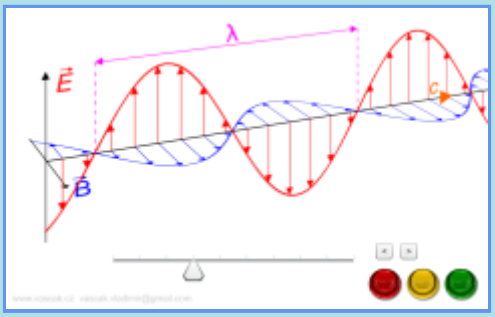


Model čierneho telesa



Fotoelektrický jav

Elektromagnetická vlna

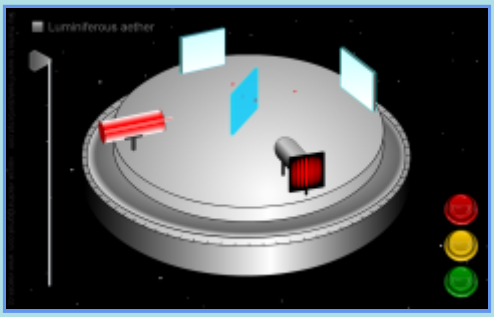


Polarizačný filter

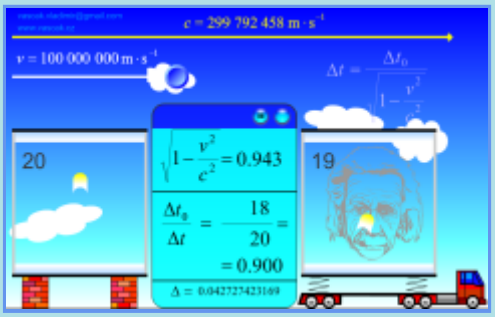
Rentgenka

Špeciálna teória relativity

Michelsonov-Morleyho poku...



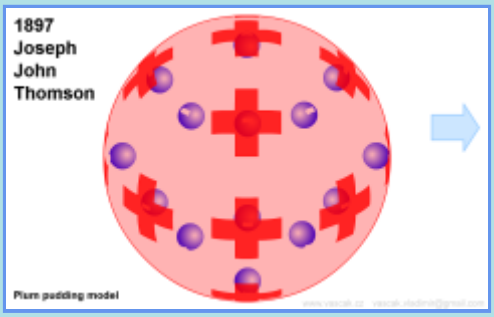
Dilatácia času



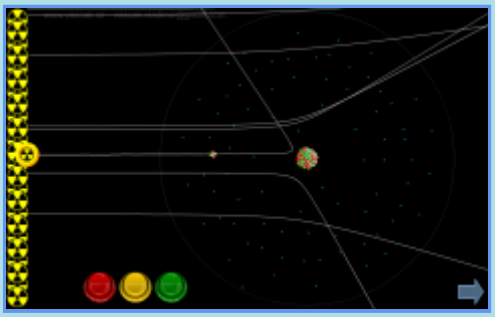
Kontrakcie dĺžky

Atomistika

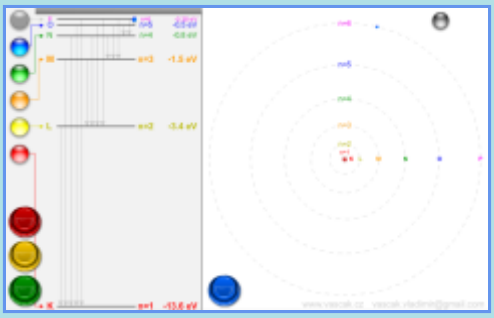
Modely atómu



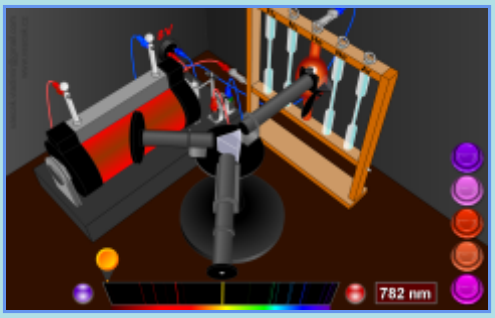
Rutherfordov pokus



Bohrov model atoma

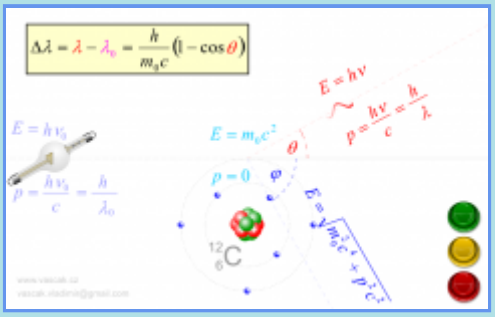


Spektroskop

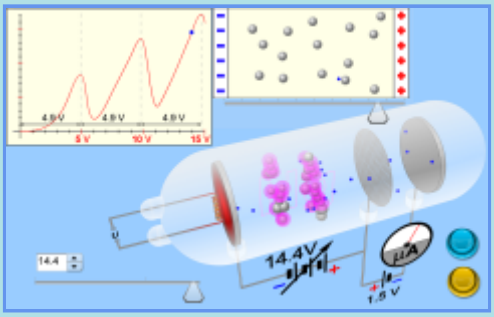


Millikanov pokus

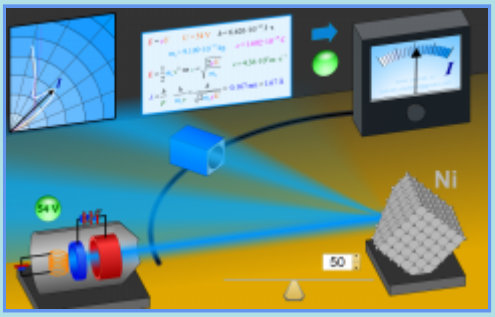
Comptonov jav



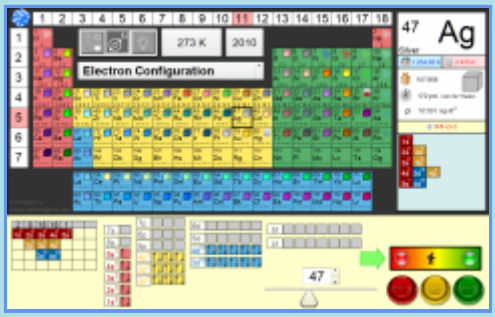
Franck-Hertzov experiment



Davissonov Germerov exper...

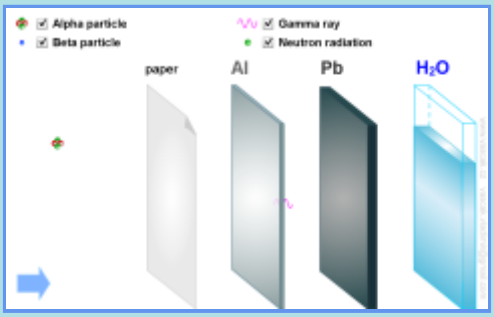


Periodická tabuľka

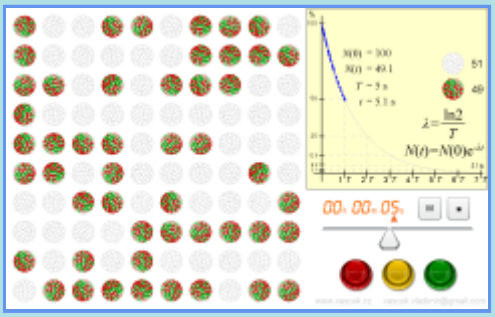


Jadrová fyzika

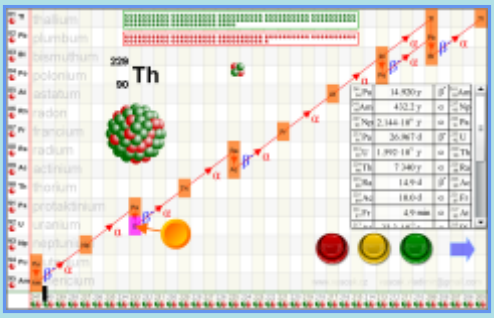
Žiarenie



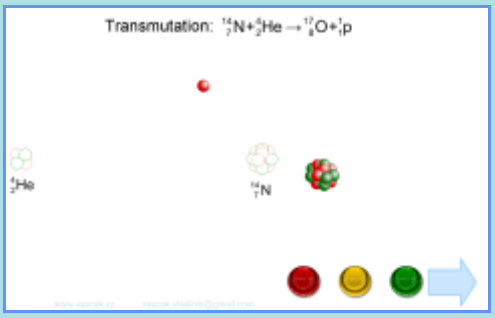
Zákon rádioaktívnej preme...



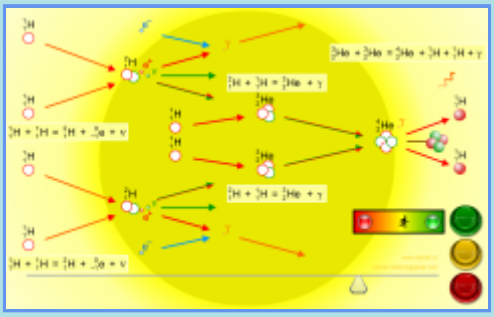
Rozpadový rad



Jadrová reakcia



Jadrová syntéza - Slnko



Matematika

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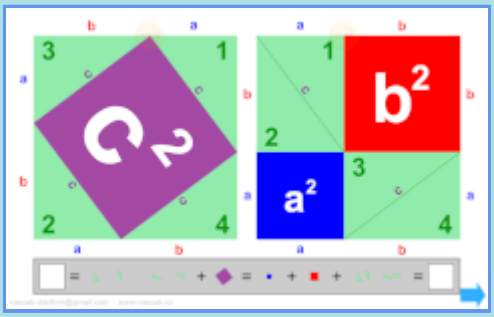
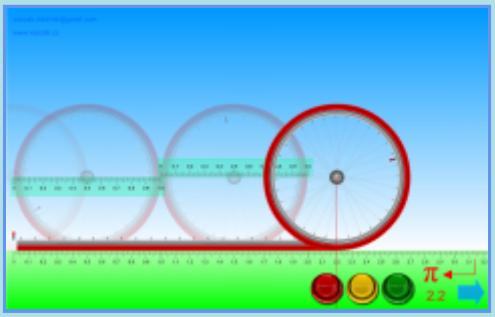
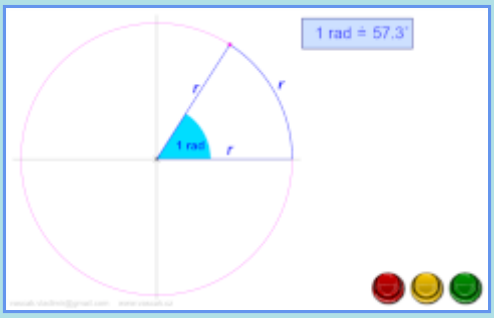


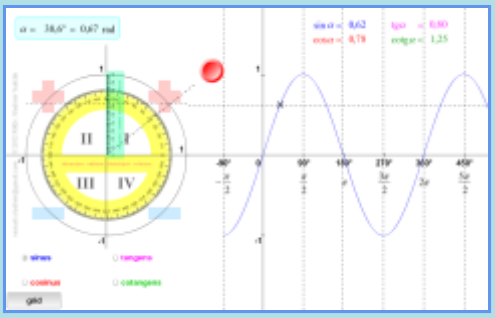
Ludolfovo číslo



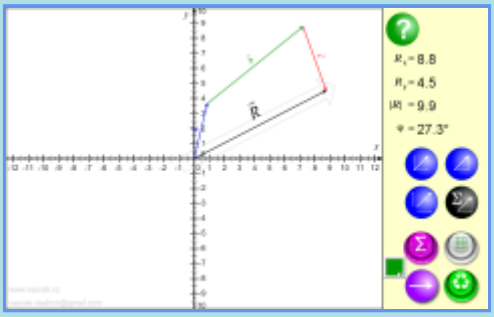
Radián



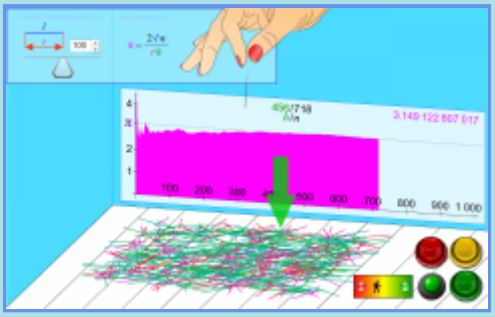
Jednotková kružnica



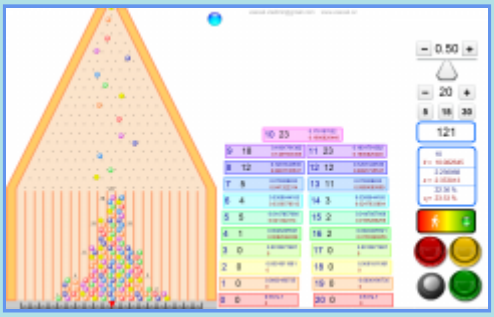
Skladanie vektorov



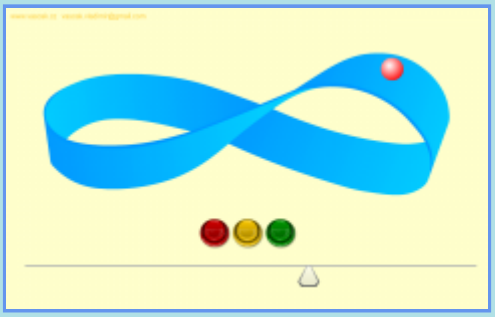
Buffonova ihla



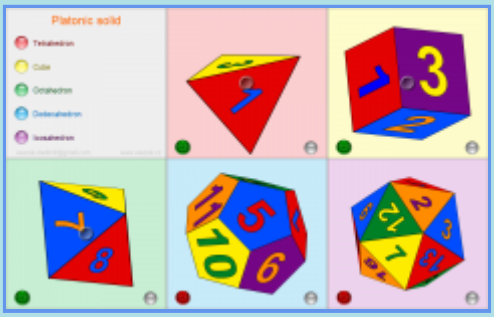
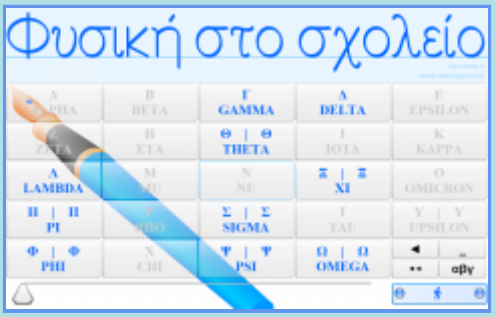
Galtonova doska



Möbiov list



Platónske teleso



Grécka abeceda