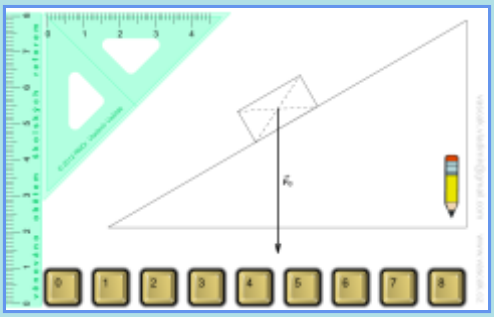
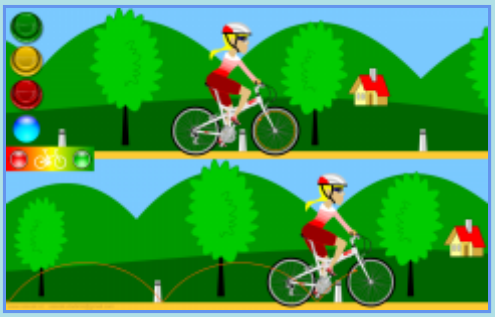
Fizika u školi

Mehanika

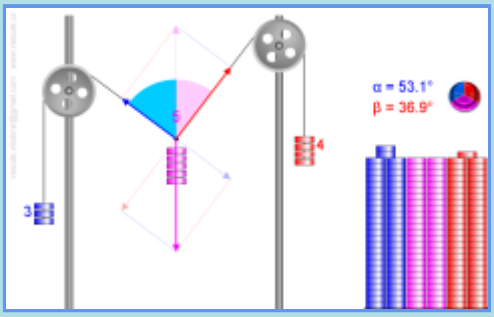
Kosina



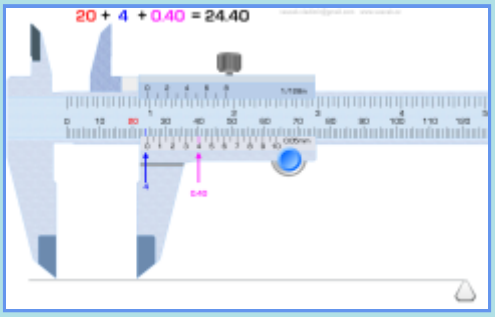
Referentni sustav



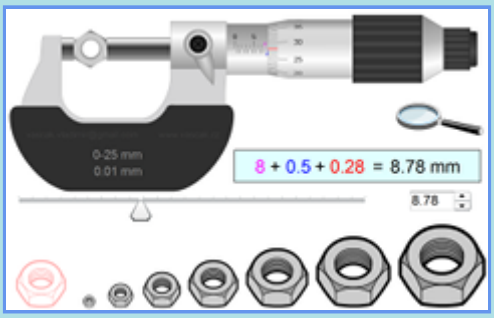
Paralelogram sila



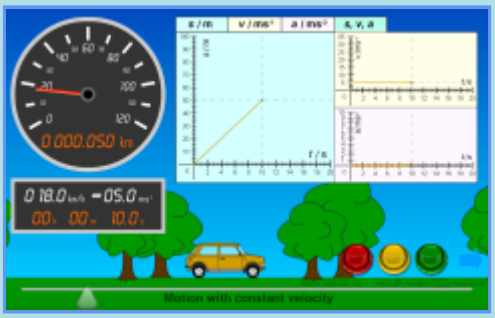
Pomična mjerka



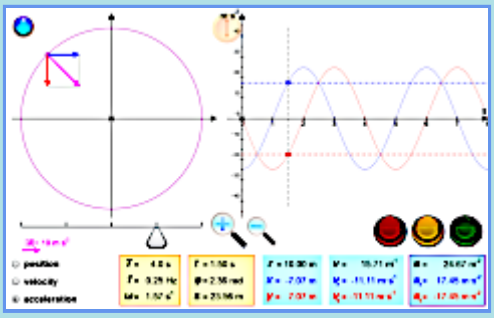
Mikrometarski vijak



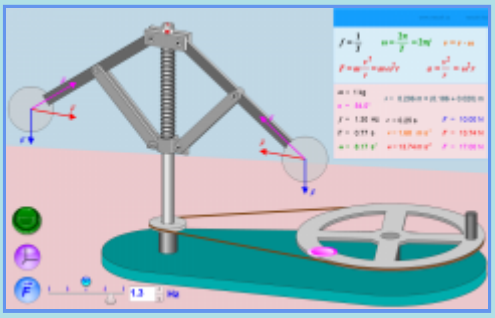
Gibanje



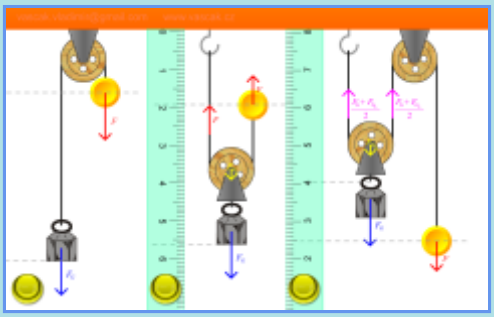
Kružno gibanje



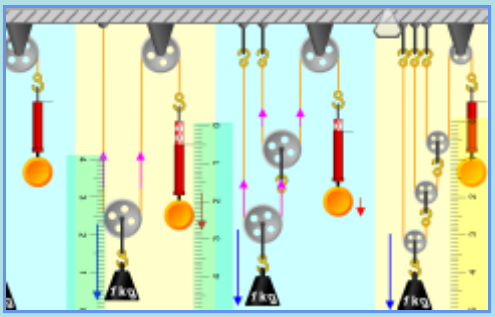
Centrifugalni regulator



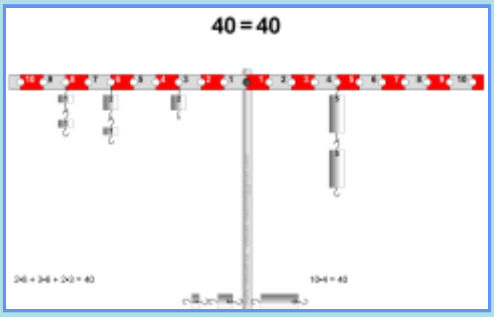
Kolotura



Koloturnik

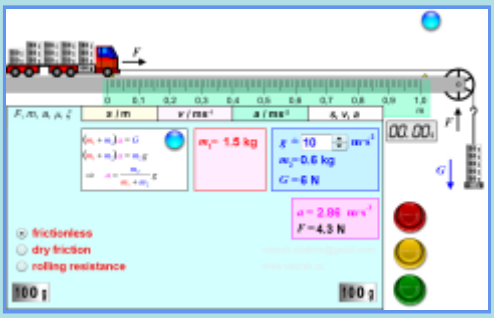


Zakon poluge

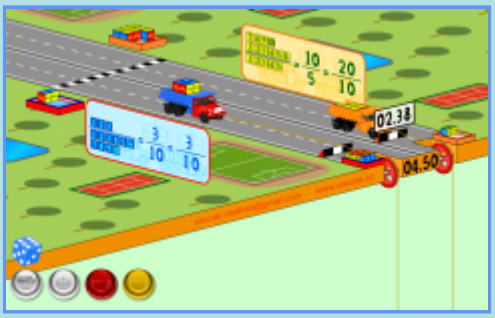


1. Newtonov zakon

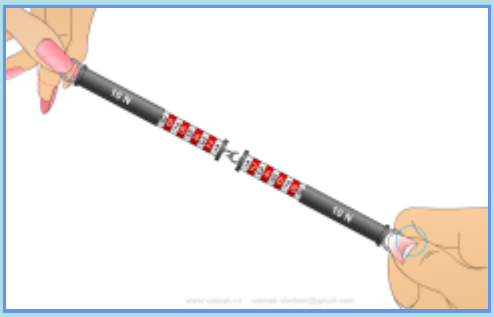
2. Newtonov zakon



2. Newtonov zakon



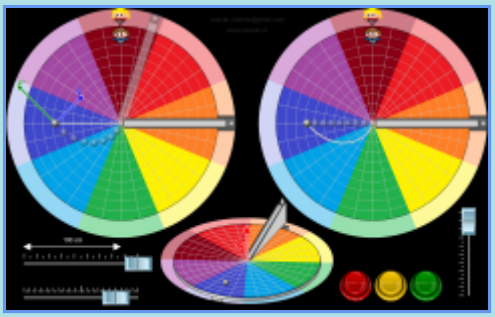
3. Newtonov zakon



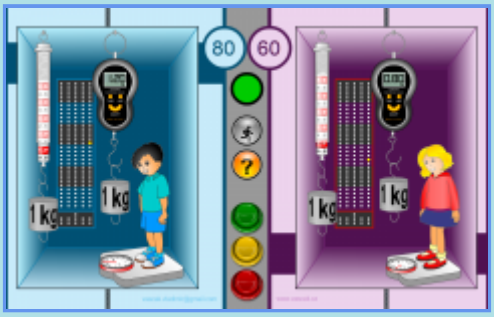
Fiktivna sila

Centrifugalna sila

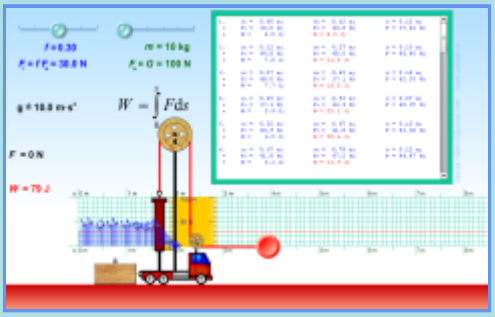
Coriolisov učinak



Dizalo

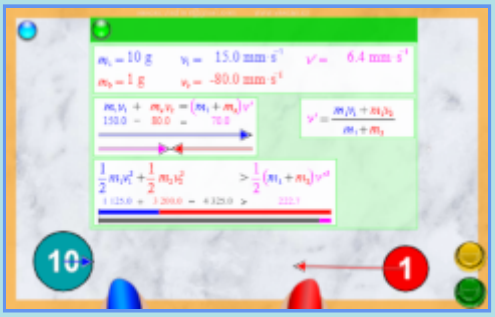


Mehanički rad

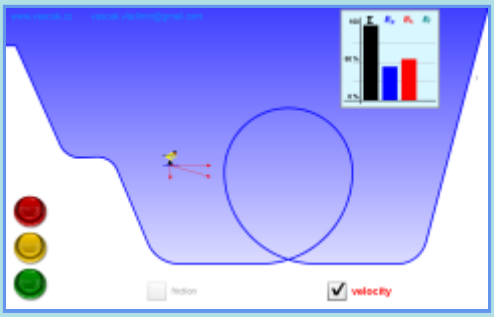


Elastični sudari

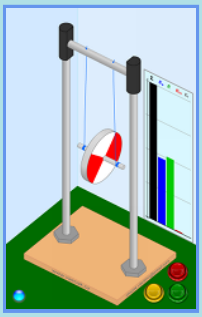
Neelastični sudari



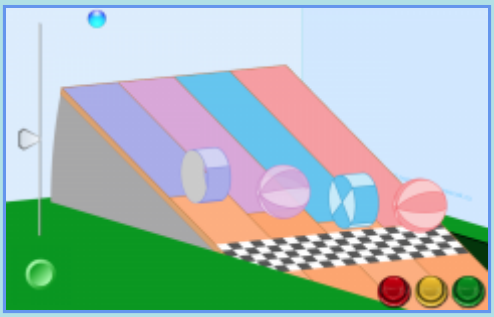
Zakon očuvanja energije



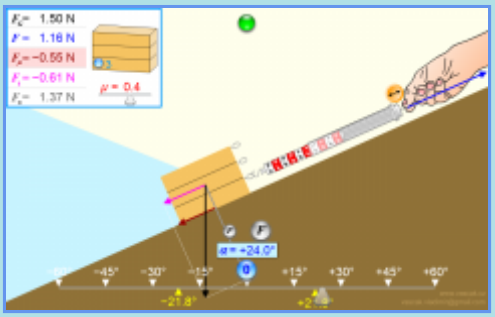
Maxwellov kotač



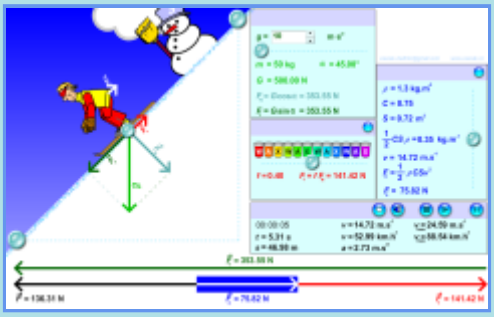
Moment inercije



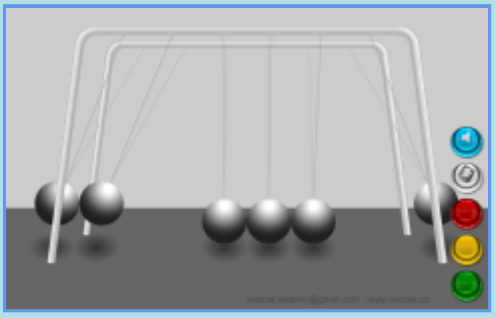
Trenje



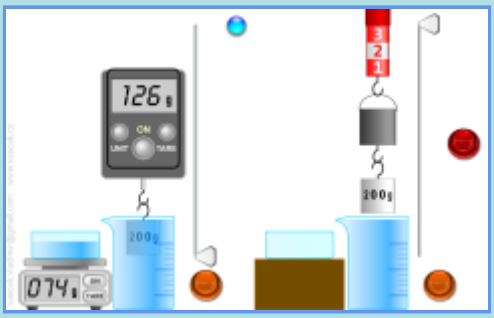
Trenje i otpor zraka



Newtnova kolijevka

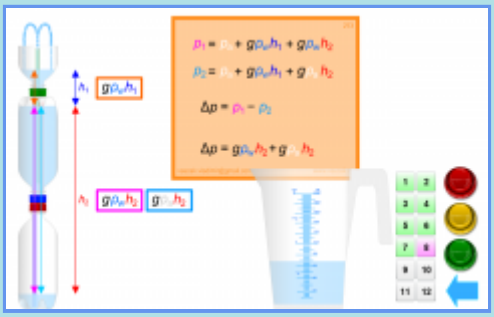


Arhimedov zakon

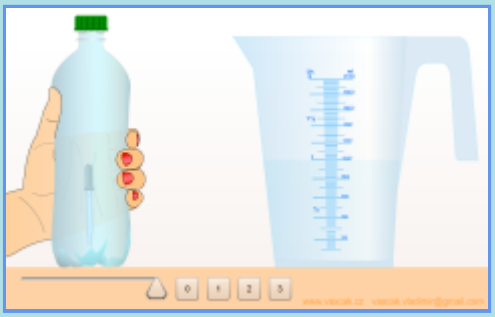


Hidrostatički tlak

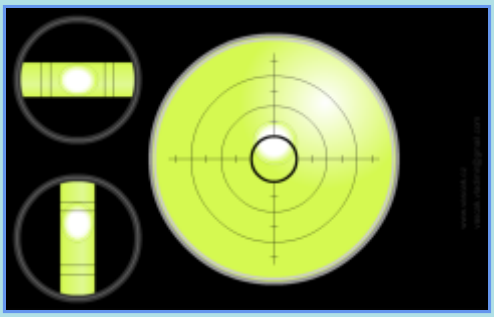
Heronov vodoskok



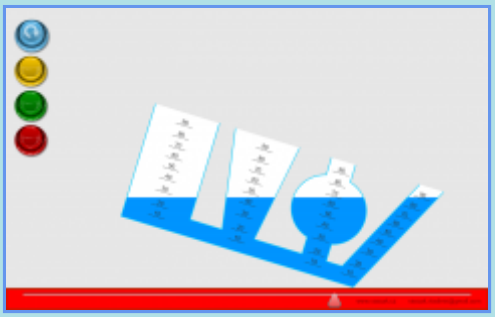
Kortezijev ronilac



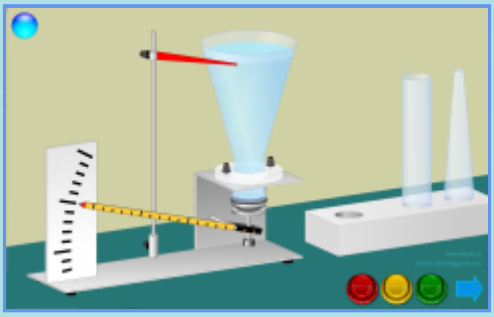
Libela



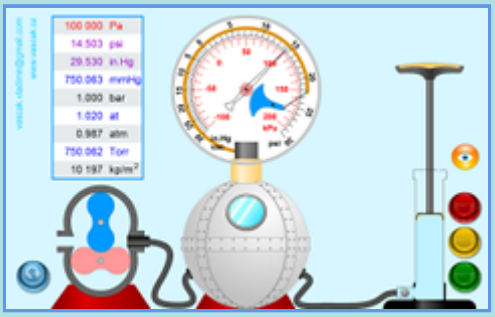
Spojene posude



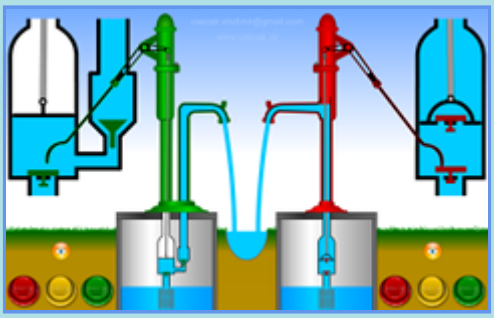
Hidrostatički paradoks



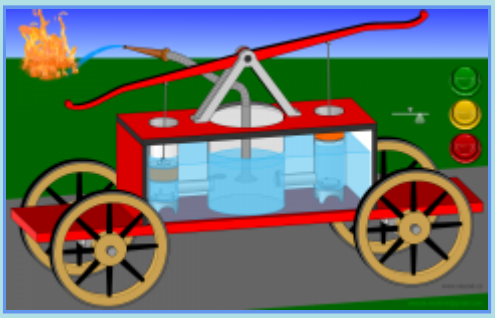
Tlak



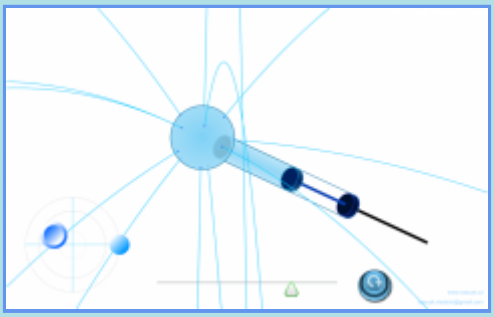
Sisaljka



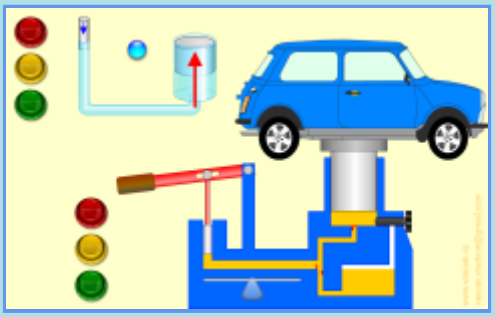
Ktesibije - vatrogasna ko...



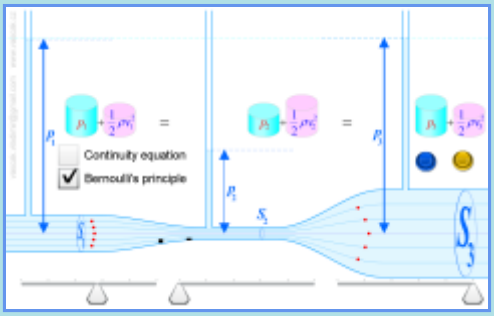
Pascalov zakon



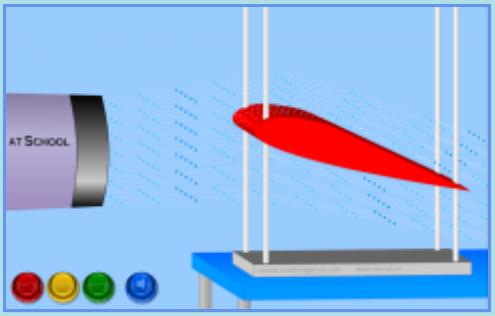
Hidraulični dizač



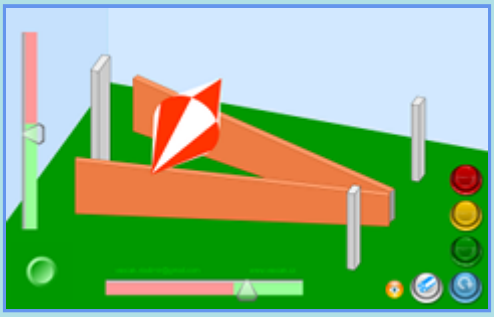
Bernoullijeva jednadžba



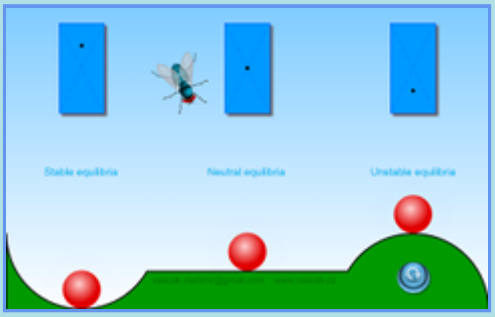
Dinamički uzgon



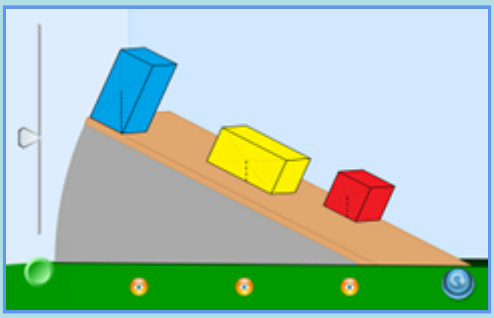
Težište



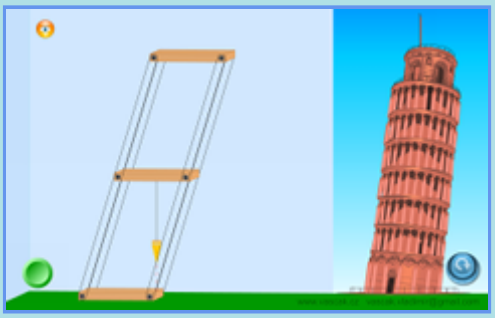
Ravnoteža 1



Ravnoteža 2

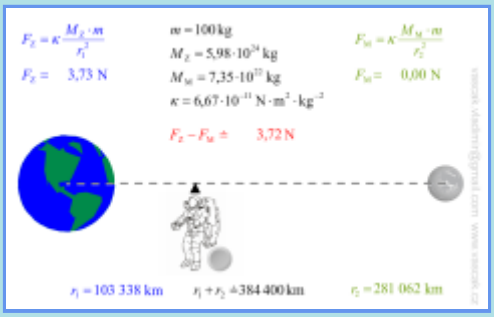


Ravnoteža 3

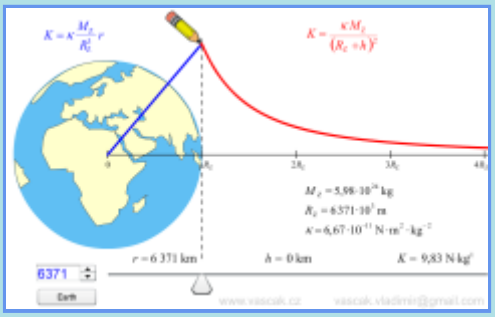


Gravitacijsko polje

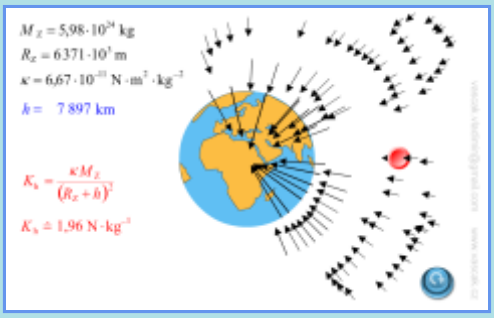
Newtonov zakon gravitacij...



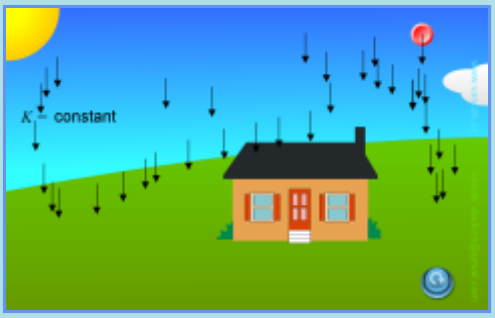
Intenzitet gravitacijskog...



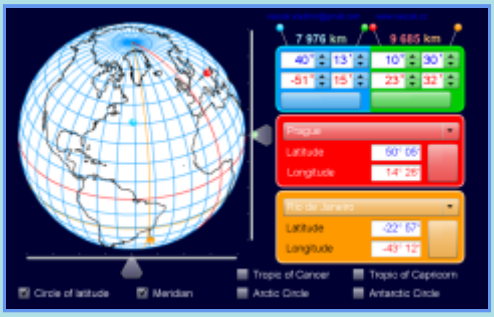
Gravitacijsko polje



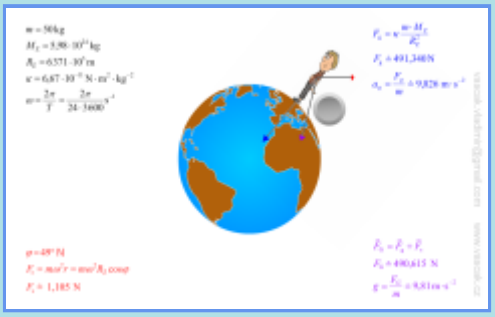
Homogeno gravitacijsko po...



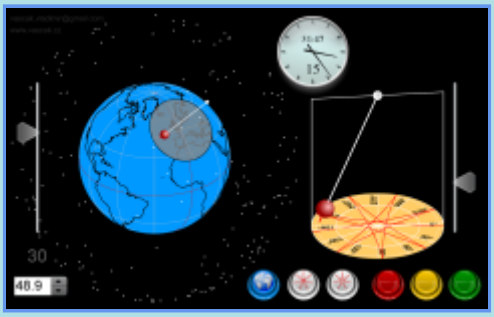
Geografski koordinatni su...



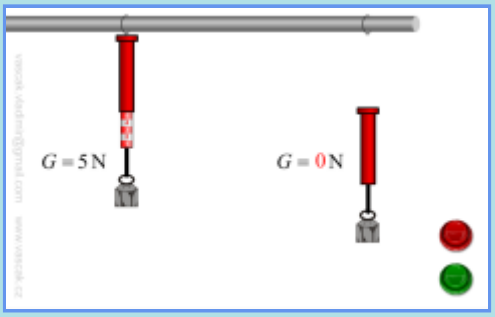
Ubrzanje zemljine sile te...



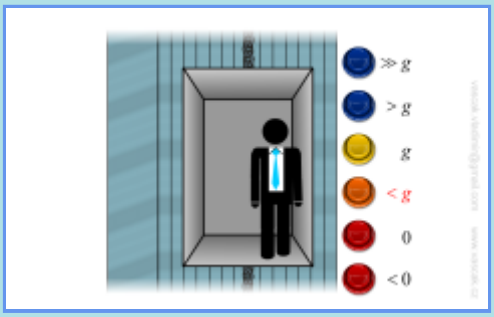
Foucaultovo njihalo



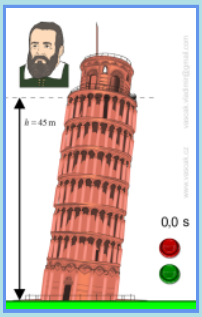
Bestežinsko stanje



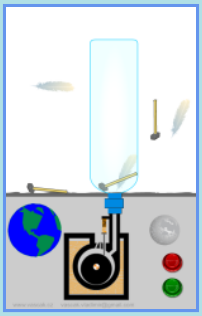
Super dizalo



Slobodni pad

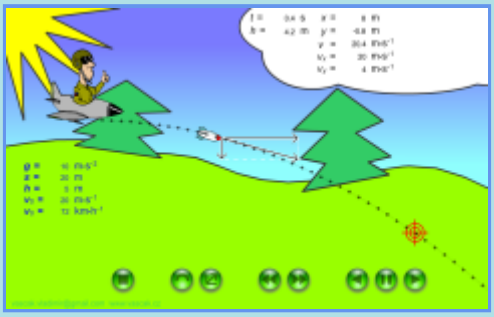


Slobodan pad u vakuumu

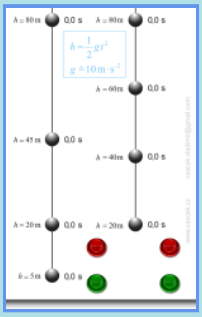


Horizontalni hitac

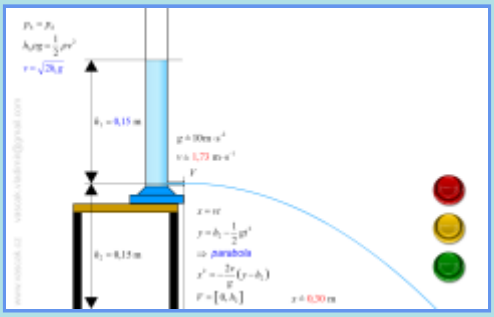
Horizontalni hitac 2



Padostroj

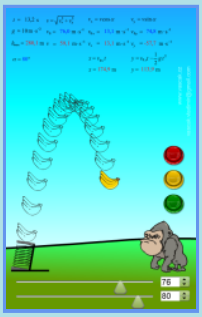


Protok tekućine kroz rupu

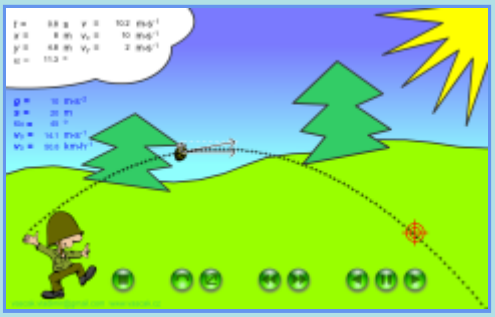


Vertikalni hitac

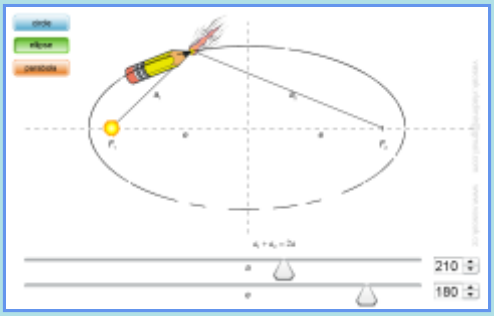
Kosi hitac



Kosi hitac - granata



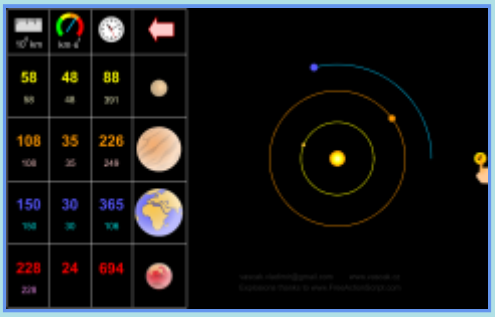
Putanja nebeskih tijela



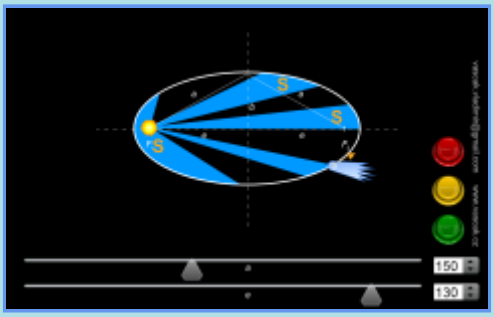
Newtonov top

Geostacionarni satelit

Prvi Keplerov zakon



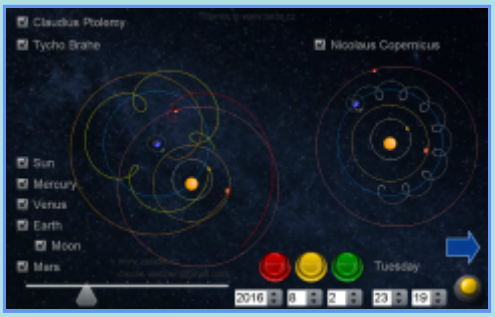
Drugi Keplerov zakon



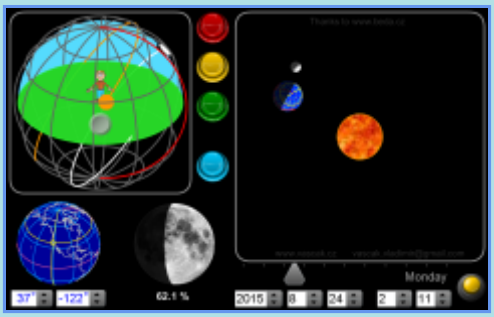
Treći Keplerov zakon - un...

Treći Keplerov zakon - va...

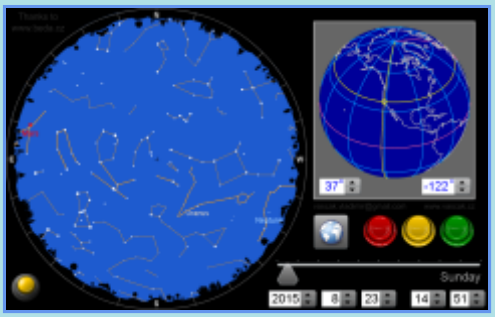
Sunčev sustav



Mjesečeve mijene

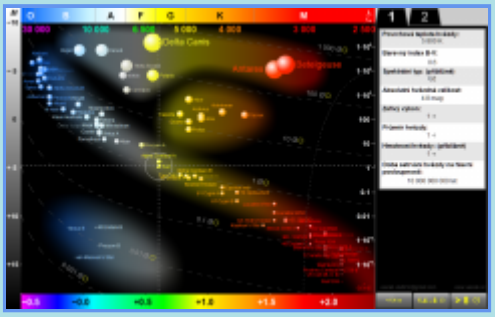


Zviježđe



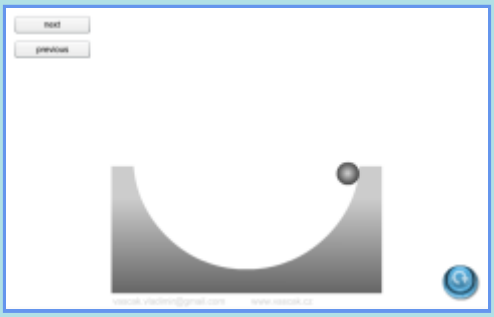
Keplerovi zakoni

Hertzsprung-Russellov dij...

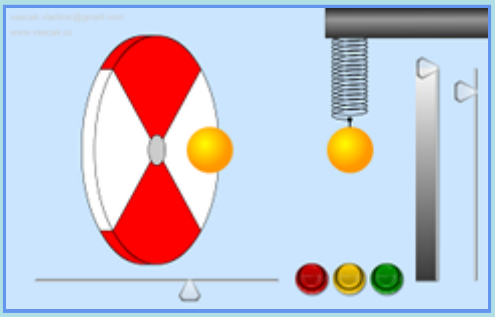


Mehaničko titranje i valovi

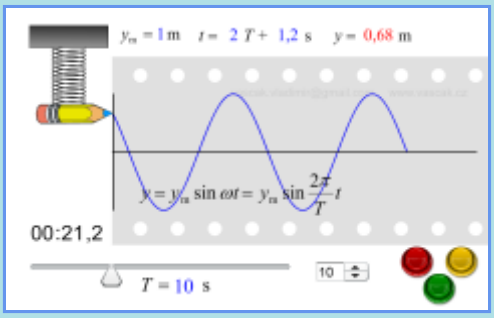
Oscilator



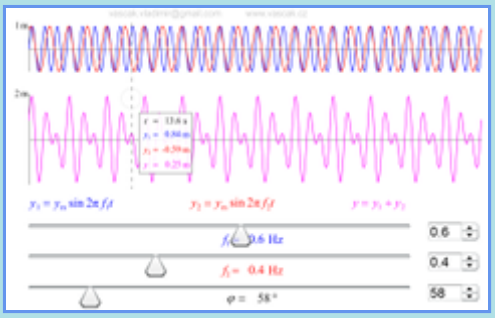
Kružno kretanje



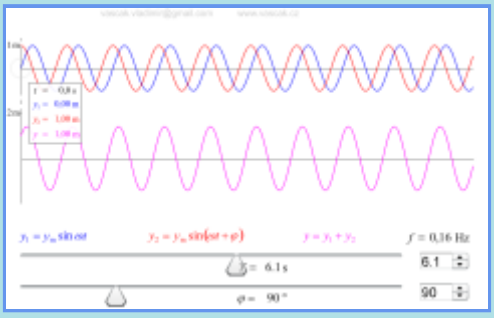
Harmonijsko titranje



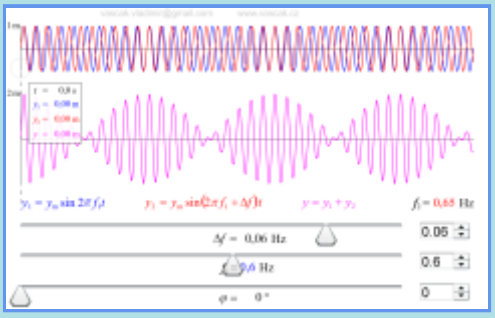
Superpozicija titranja



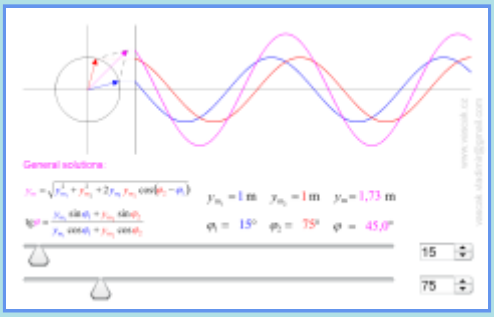
Superpozicija titranja f1...



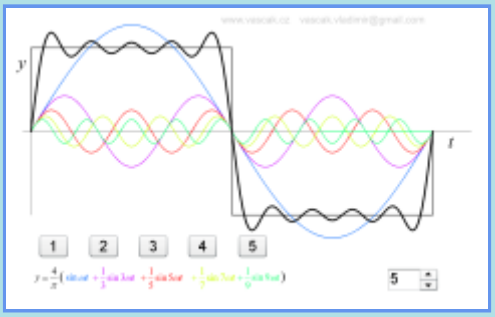
Superpozicija titranja f1...



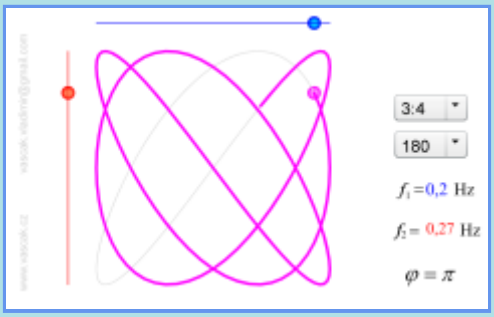
Faza titranja



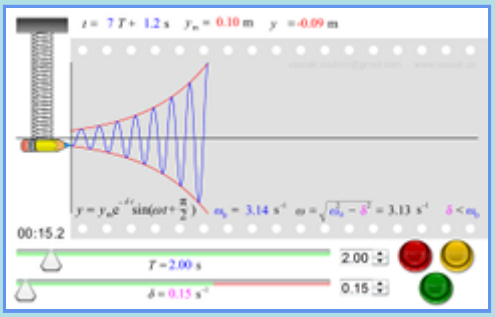
Pravokutni signal



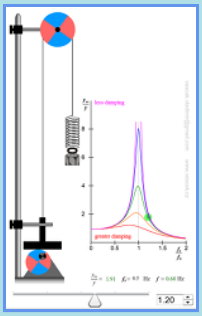
Lissajous krivulja



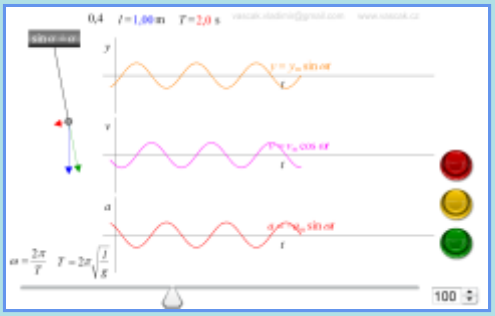
Prigušene oscilacije



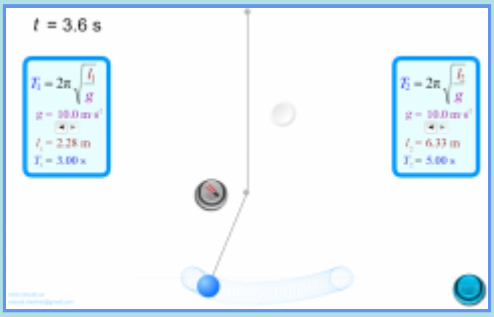
Prisilne oscilacije



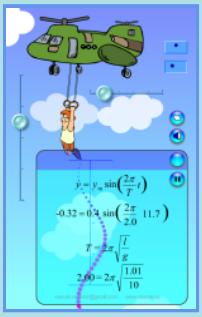
Matematičko njihalo



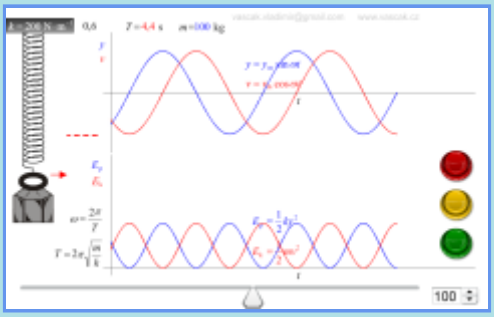
Matematičko njihalo - Čav...



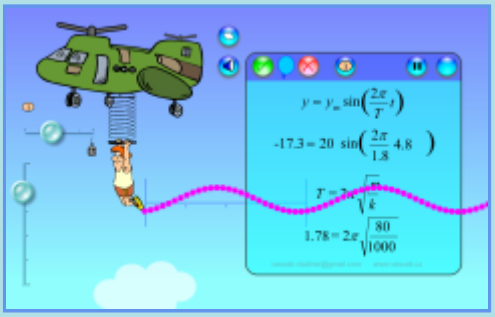
Matematičko njihalo - Hel...



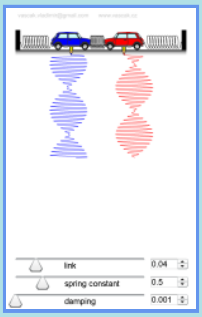
Njihalo s oprugom



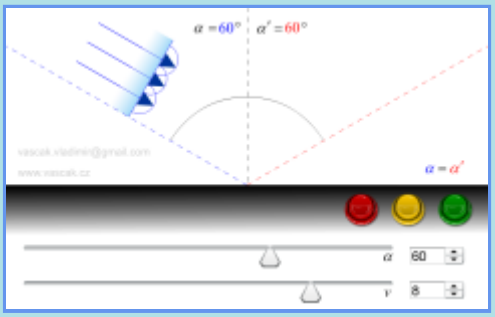
Njihalo s oprugom - Helik...



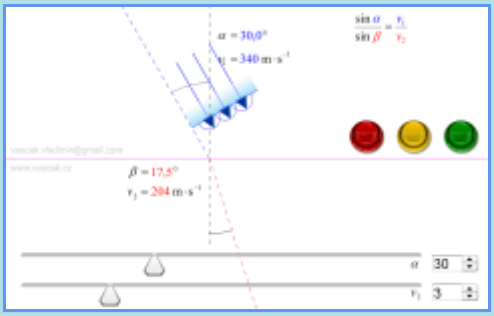
Spregnuti oscilatori



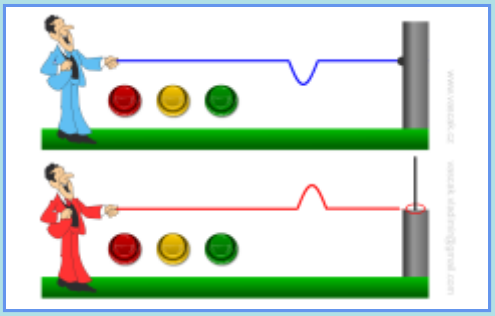
Odbijanje (refleksija) va...



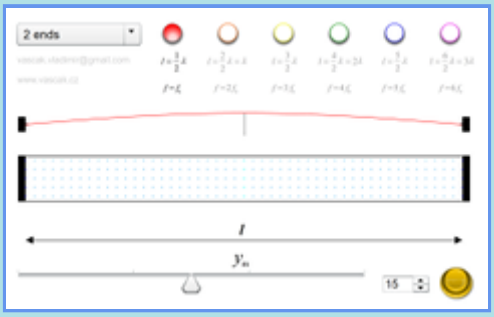
Lom (refrakcija) vala



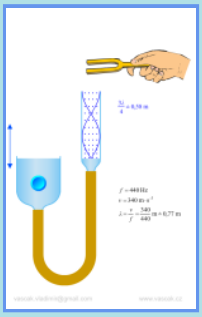
Odbijanje vala na kraju



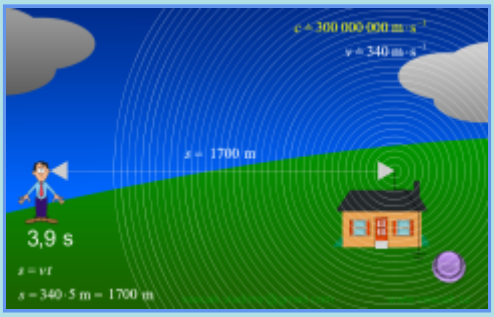
Stojni val



Rezonancija



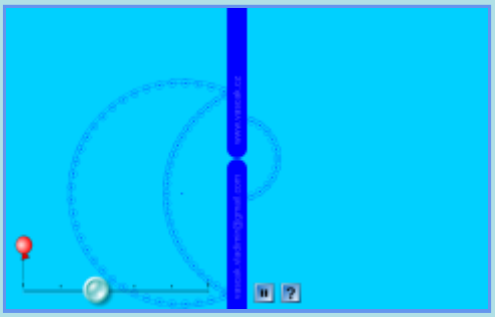
Brzina zvuka



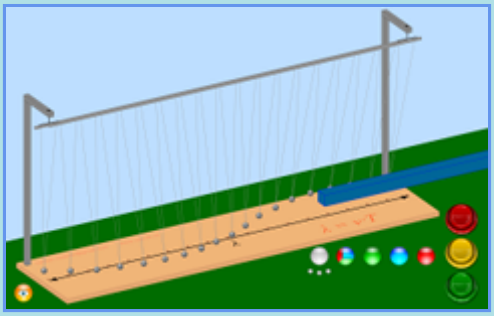
Dopplerov efekt

Udarni val

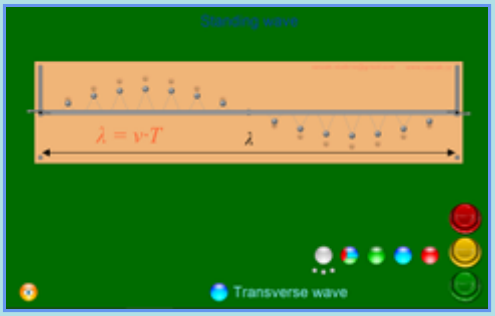
Huygens-Fresnelov princip



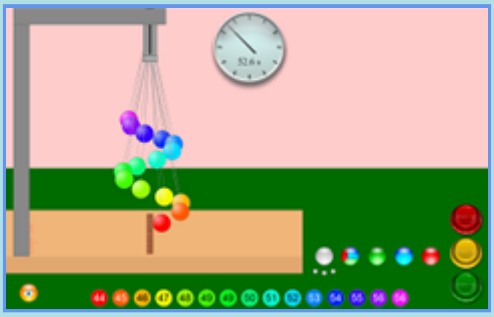
Stroj za putovanje valova



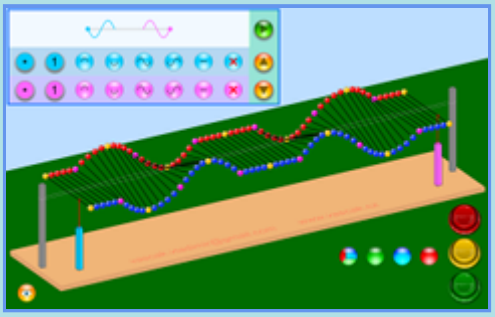
Stojni val



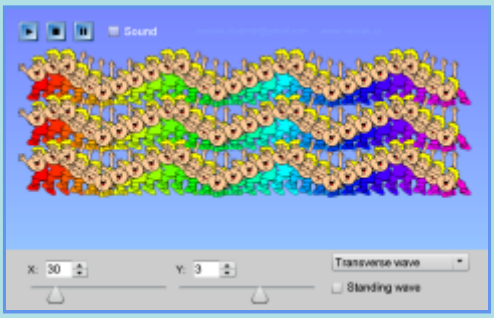
Efekt vala na kuglicama



Njihalo - torzija



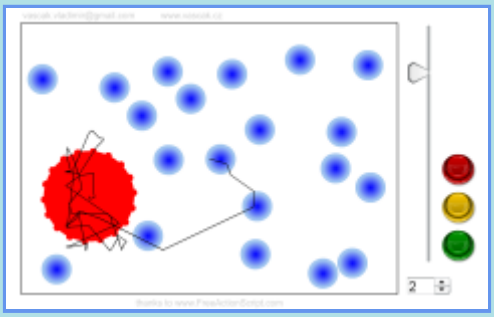
Valovi



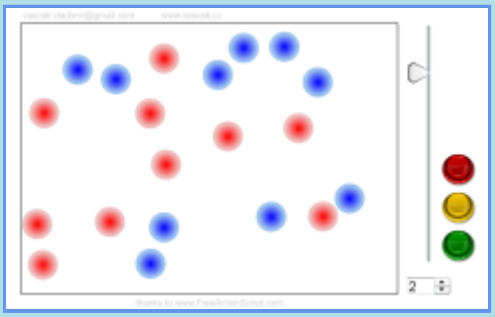
Zvuk

Molekularna fizika i termodinamika

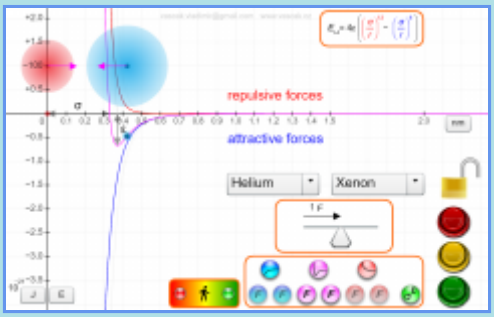
Brownovo gibanje



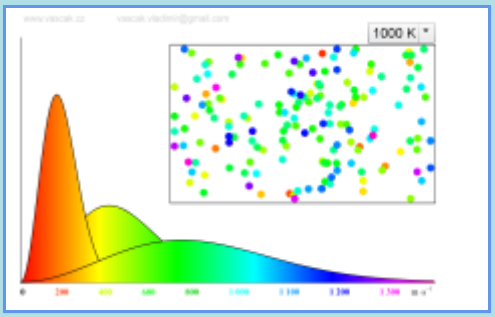
Difuzija



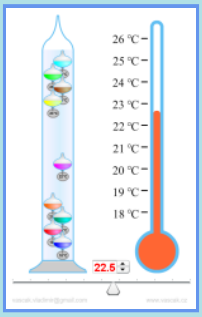
Interakcija između atoma



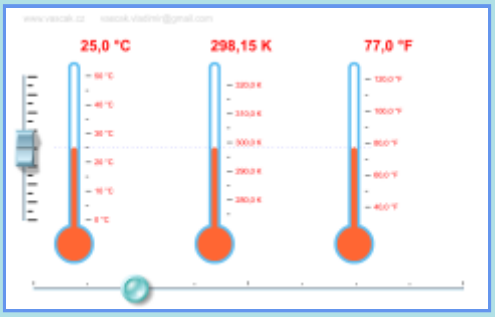
Maxwellova raspodjela mol...



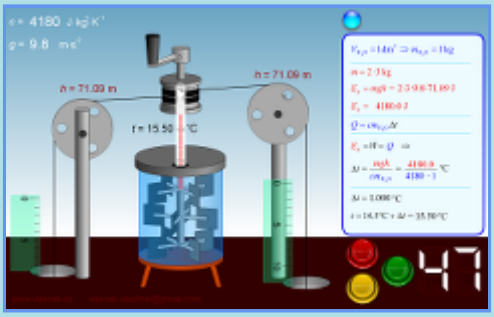
Galilejev termometar



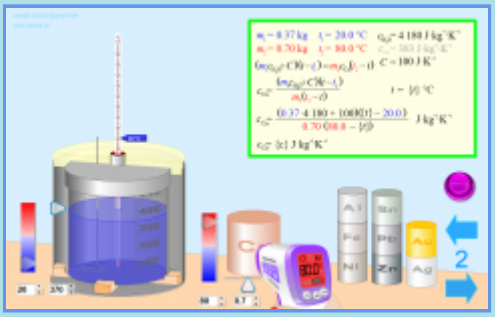
Temperaturna skala



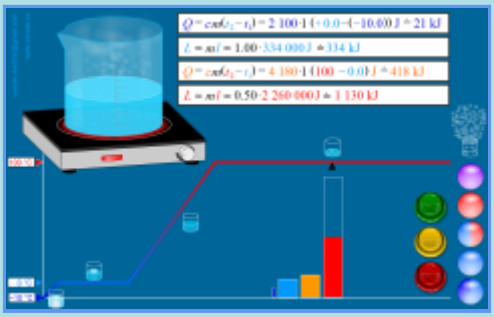
Mehanički ekvivalent topl...



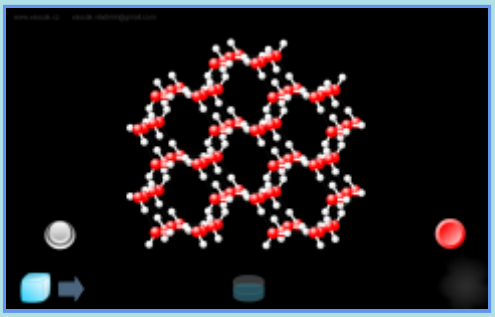
Kalorimetar



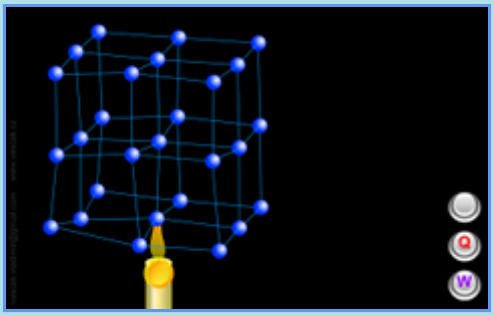
Agregatna stanja



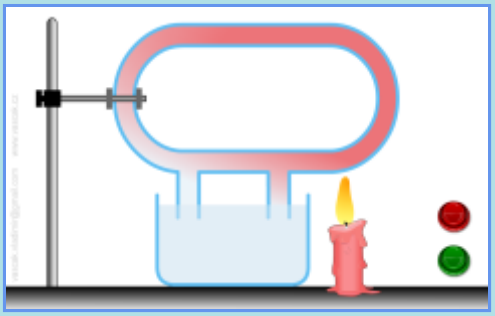
Agregatna stanja - voda



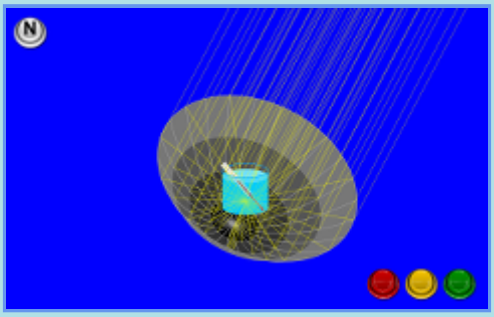
Unutarnja energija



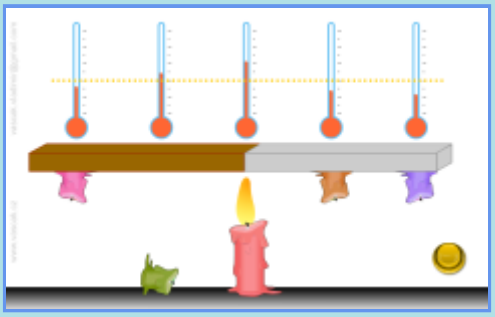
Prijenos topline - Konvek...



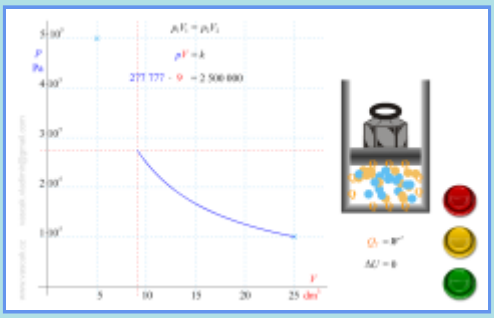
Prijenos topline - Radija...



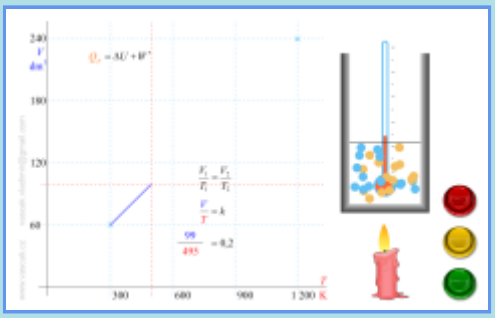
Prijenos topline - Konduk...



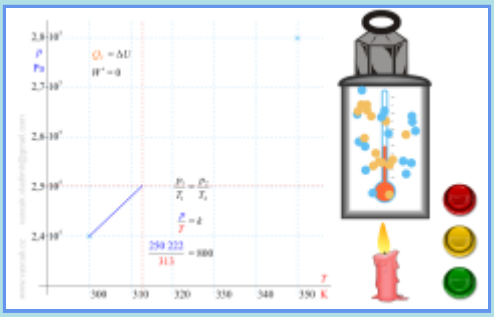
Izotermni proces



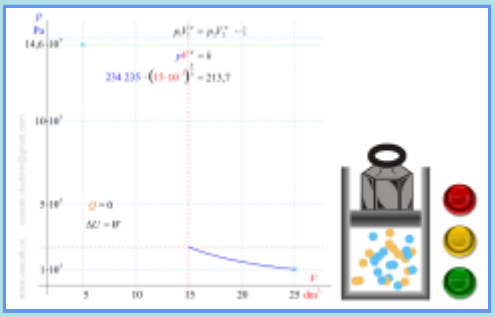
Izobarni proces



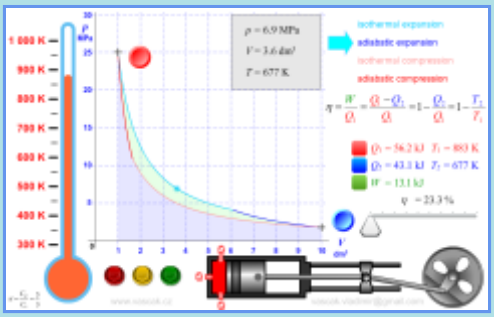
Izohorni proces



Adiabatski proces

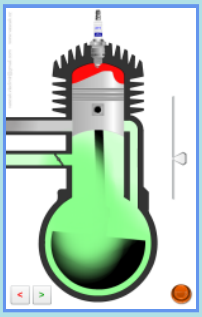


Carnotov ciklus

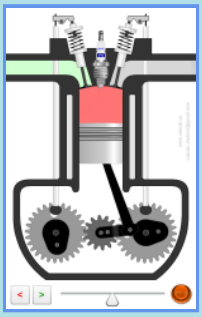


Parna lokomotiva

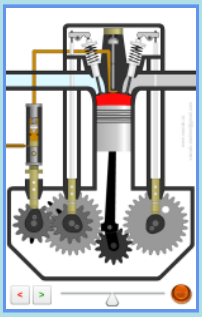
Dvotaktni motor



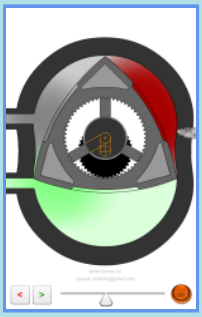
Četverotaktni motor



Dieselov motor

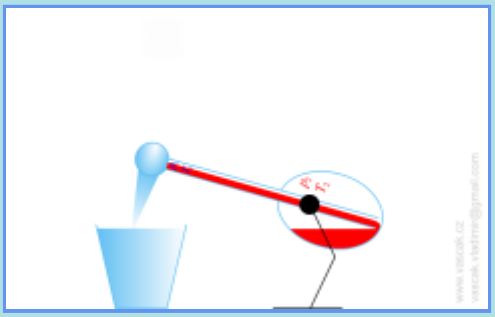


Wankelov motor

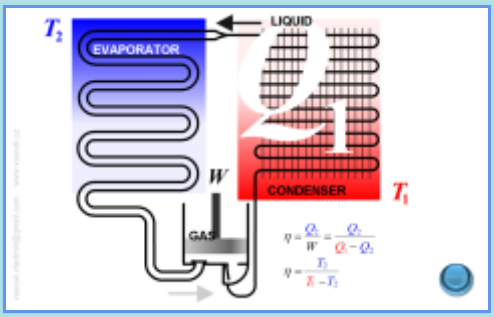


Perpetuum mobile

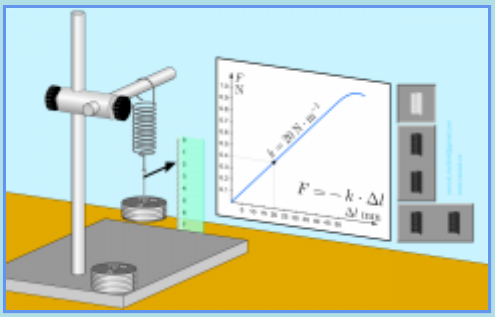
Perpetuum mobile igračka



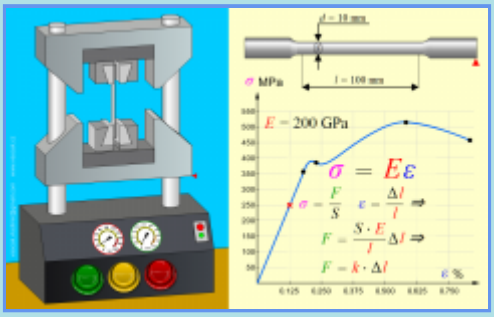
Hladnjak



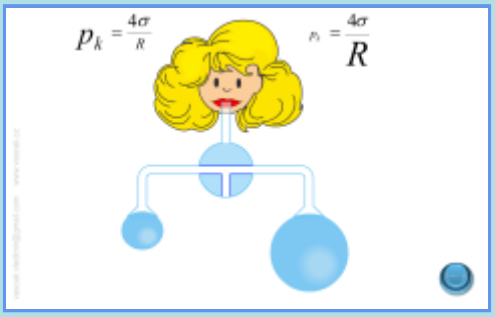
Hookeov zákon - 1



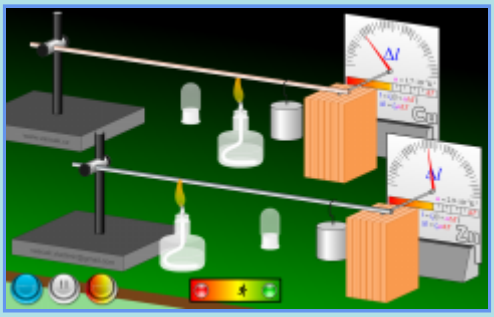
Hookeov zákon - 2



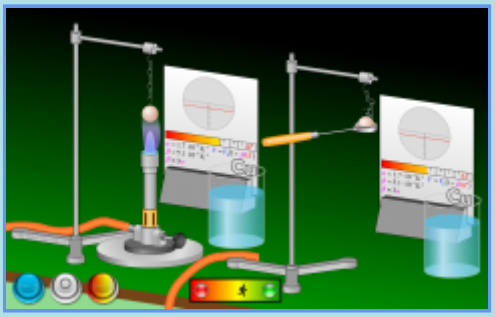
Kapilarnost



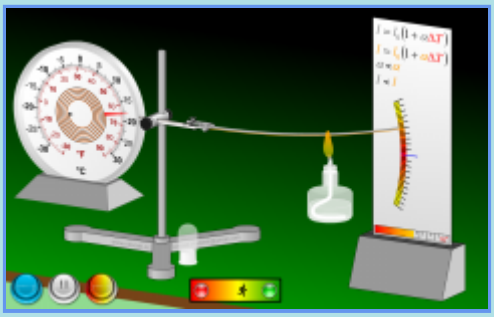
Toplinsko istezanje



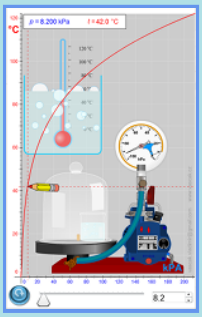
Toplinsko istezanje



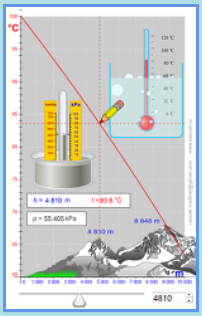
Bimetal



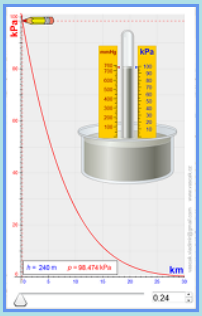
Vrelište - Atmosferski tl...



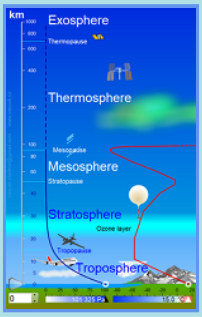
Vrelište - Nadmorska visi...



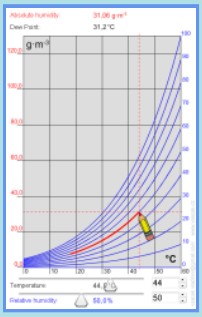
Atmosferski tlak - Nadmor...



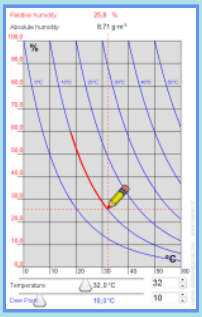
Zemljina atmosfera



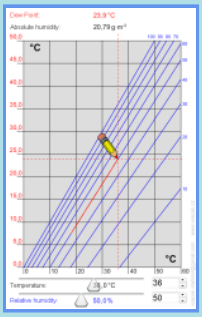
Apsolutna vlažnost



Relativna vlaga

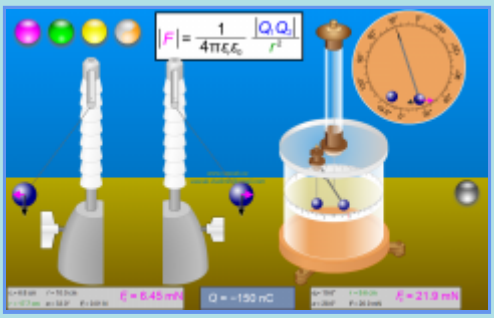


Rosište

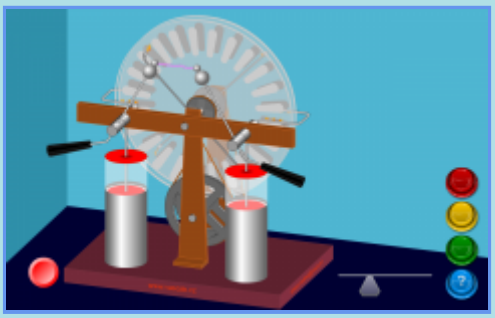


Elektrostatika

Coulombov zákon

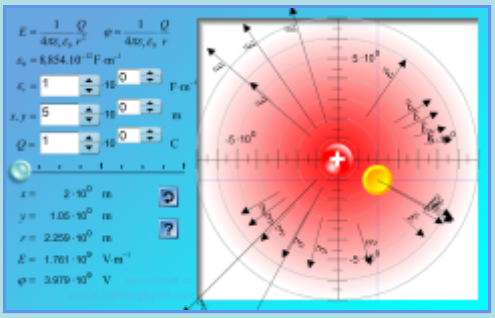


Wimshurst stroj

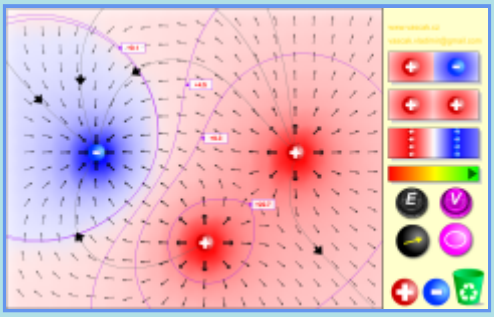


Van de Graaffov generator

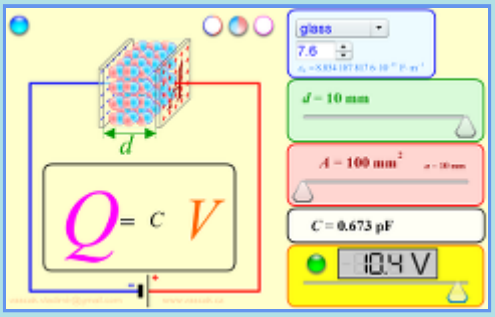
Električno polje



Naboj i električno polje

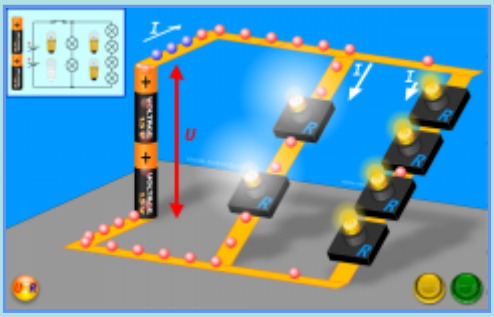


Kondenzator

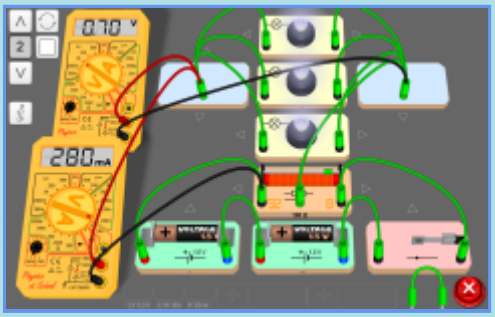


Električna struja

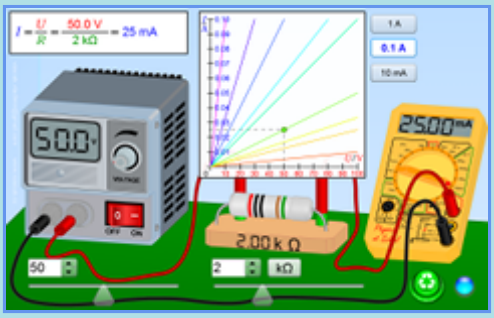
Napon, struja i otpor



Električne mreže

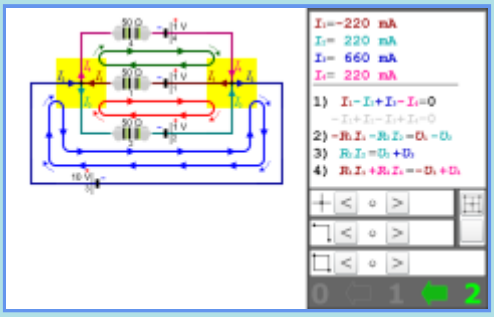


Ohmov zakon

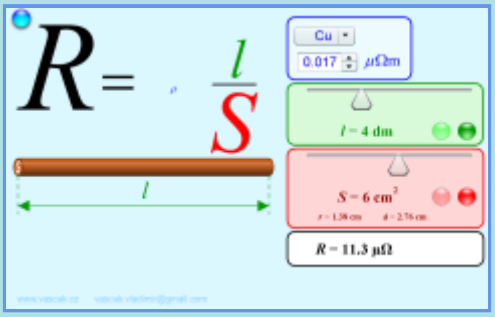


Unutarnji otpor

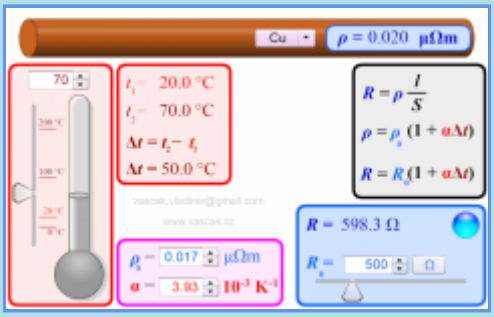
Kirchhoffovi zakoni



Električni otpor

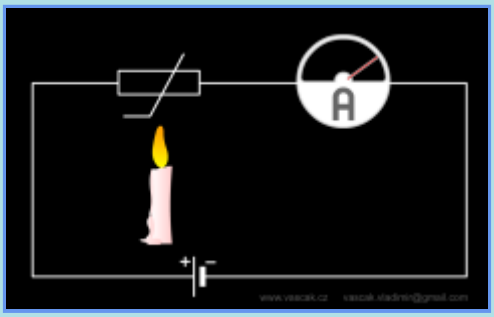


Temperaturni koeficijent ...

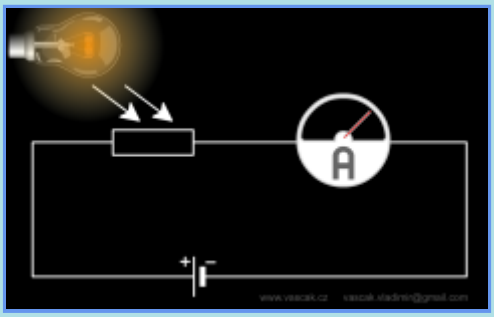


Poluvodiči

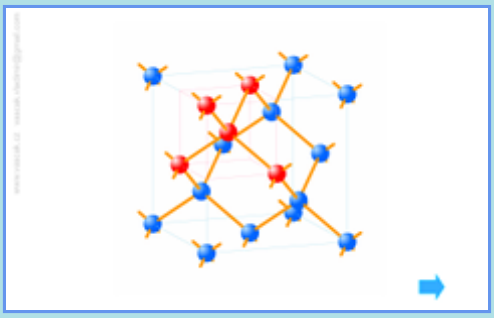
Termistor



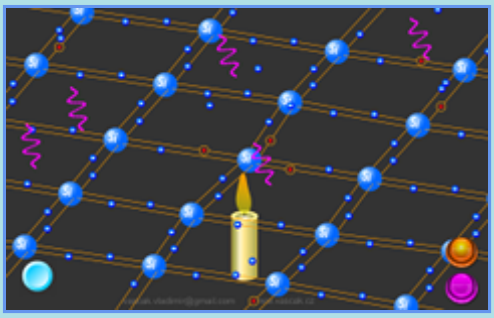
Fotootpornik



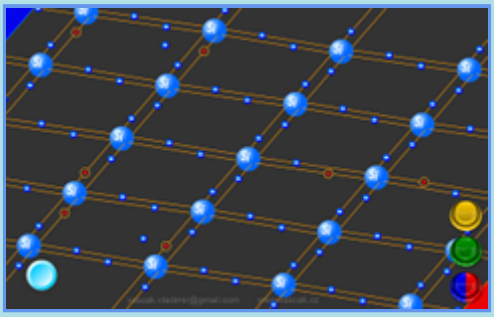
Silicij



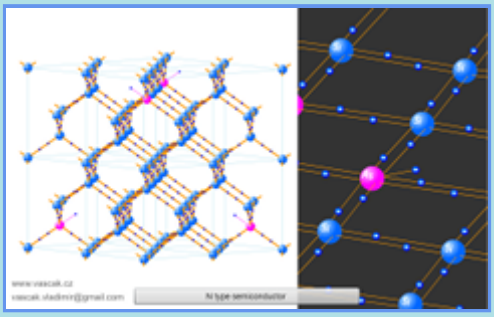
Generacija i rekombinacij...



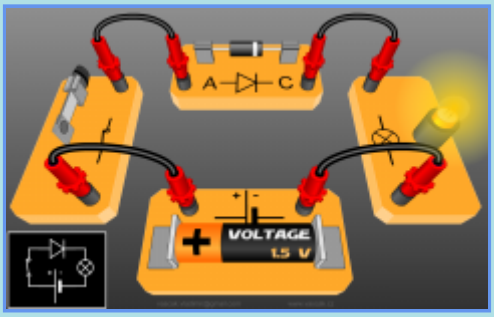
Intrinsični poluvodiči



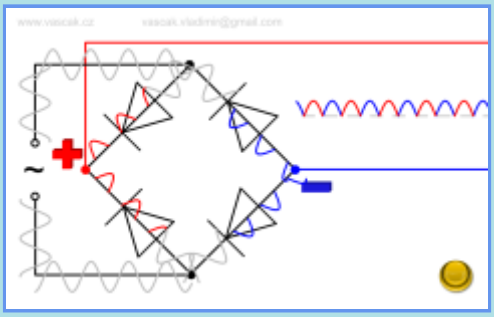
Poluvodiči



Dioda

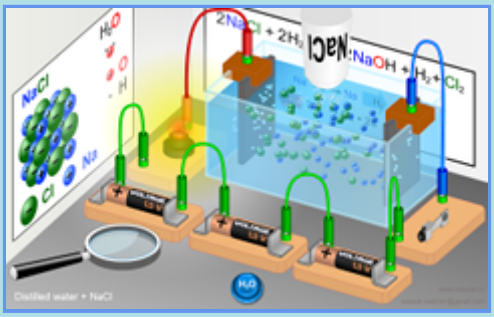


Ispravljač

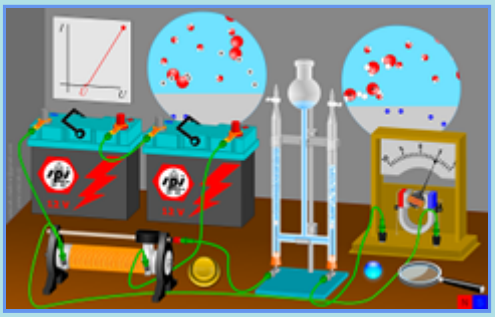


Električna struja kroz tekućine

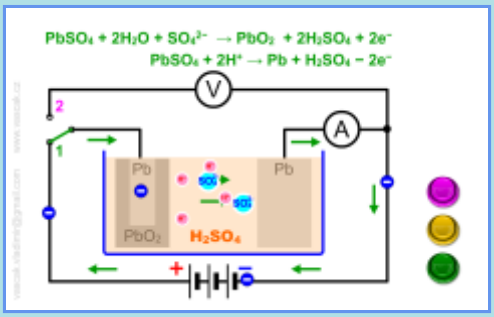
Elektrolitička disocijaci...



Elektroliza

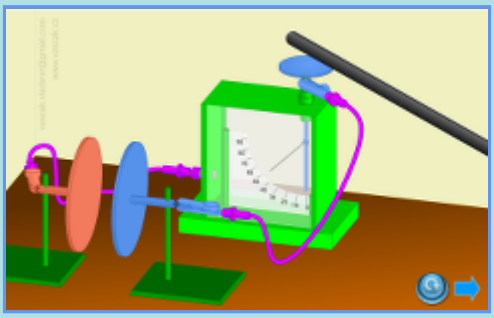


Olovo-kiselina baterije

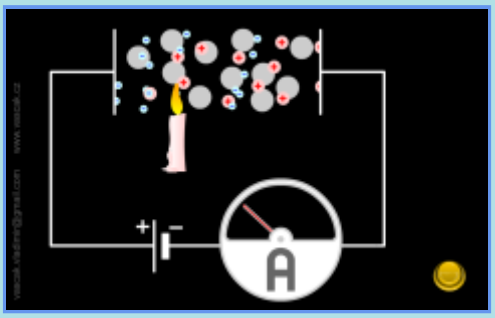


Električna struja kroz plinove i vakuum

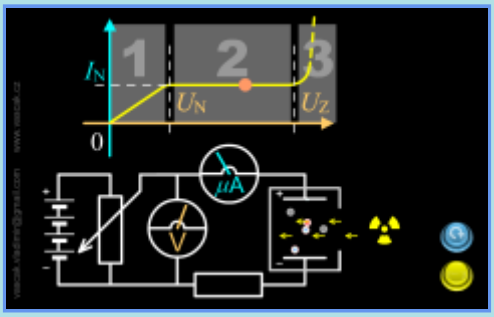
Ionizacija - izbijanje el...



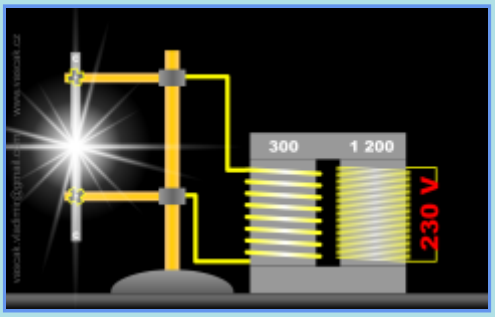
Ioniziranje



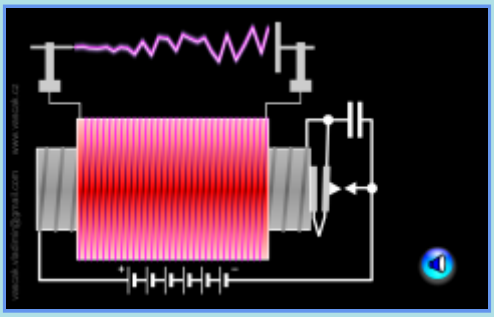
U-I karakteristika



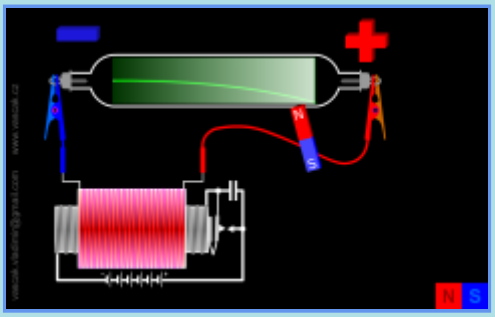
Elektrolučna svjetiljka



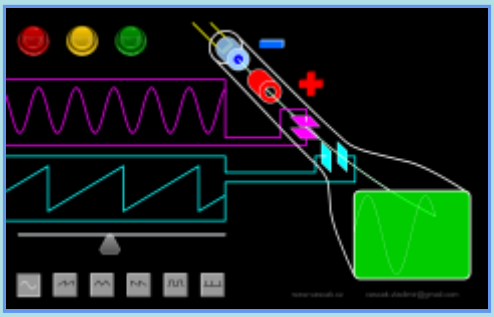
Ruhmkorffov induktor



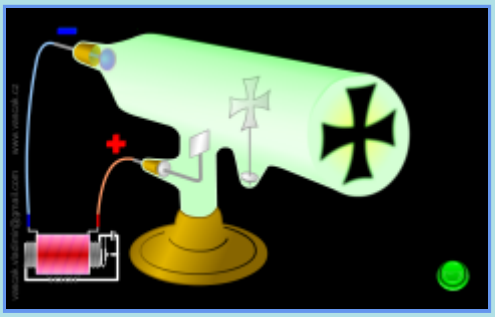
Katodne zrake



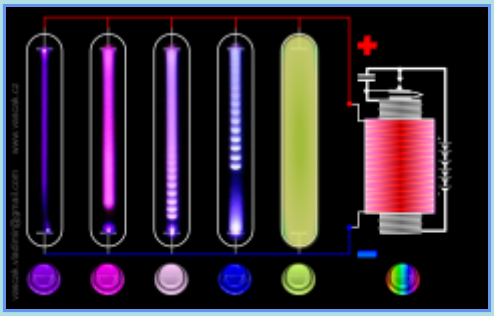
Osciloskop



Crookesova cijev s malteš...

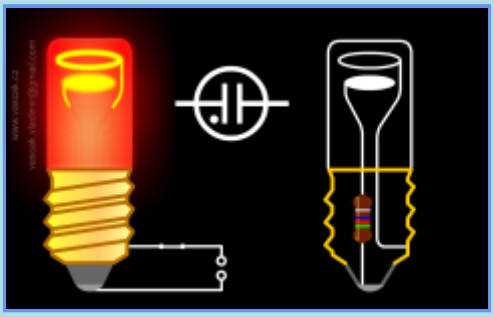


Faradayev eksperiment isi...

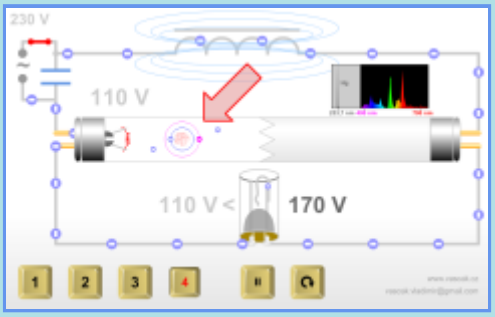


Vatra svetog Ilije

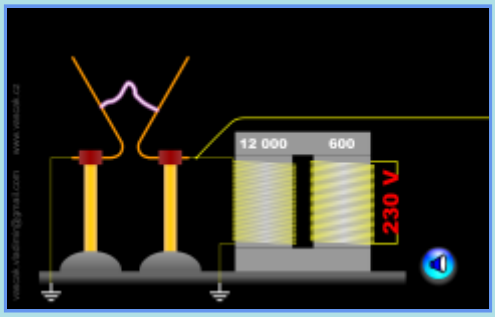
Tinjalica



Fluorescentna cijev

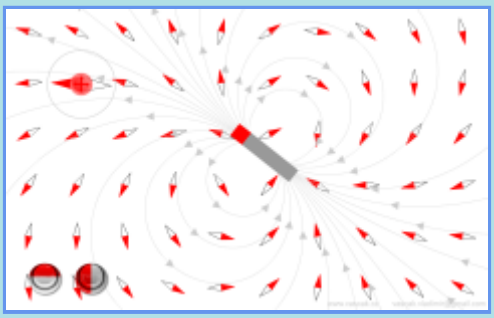


Zaštita od groma

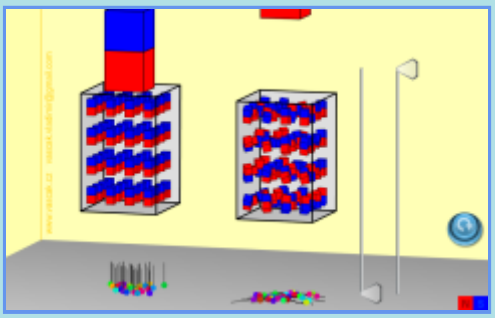


Magnetsko polje

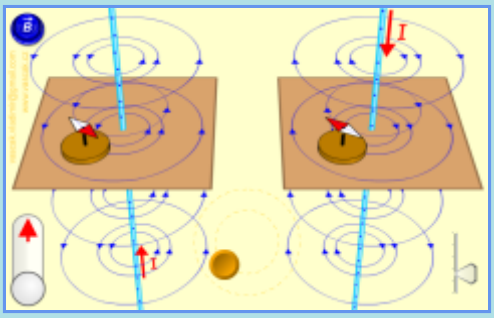
Magnet



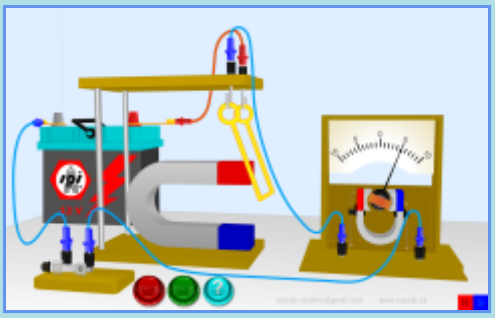
Feromagnetizam



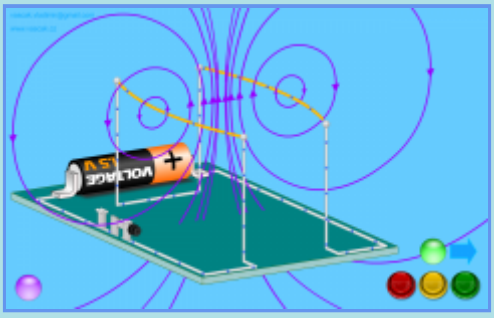
Magnetno polje dugog ravn...



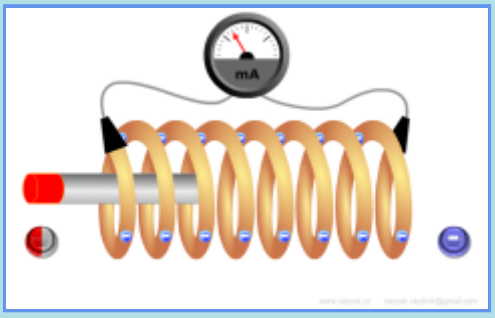
Flemingovo pravilo lijeve...



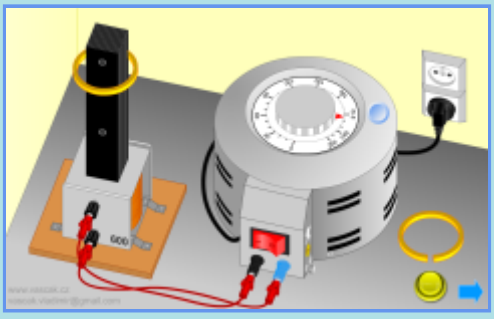
Ampèreov zakon



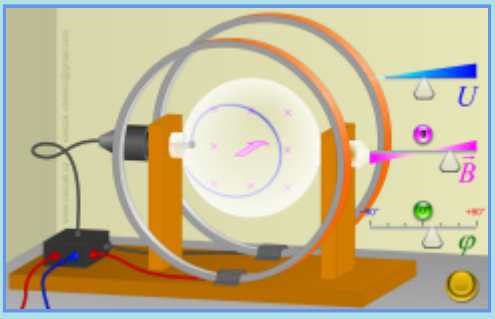
Elektromagnetska indukcij...



Lentzovo pravilo

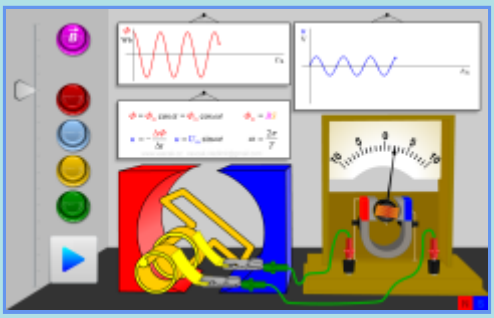


Helmholtz zavojnica

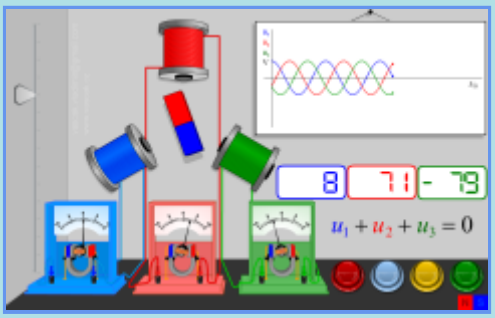


Izmjenična električna struja

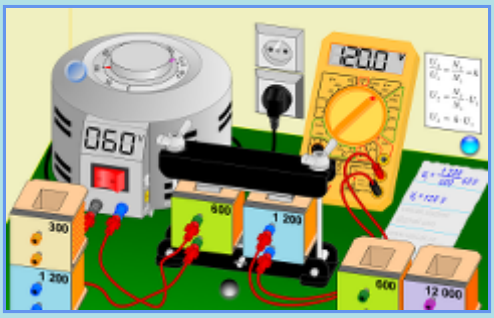
Alternator i dinamo



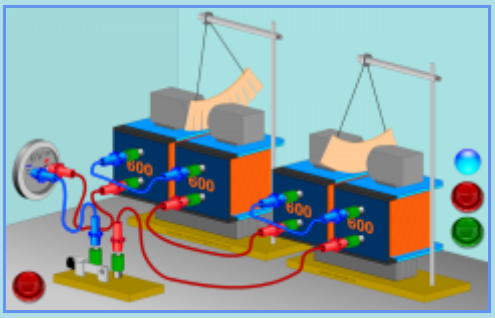
Trofazni generator



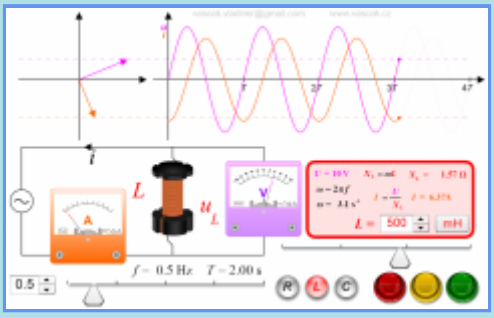
Transformator



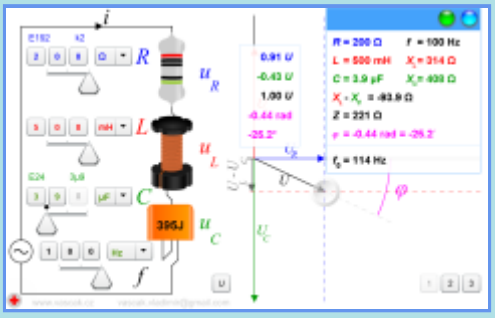
Foucaultove struje



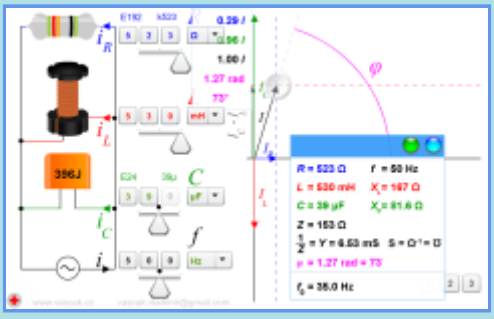
Izmjenični strujni krugov...



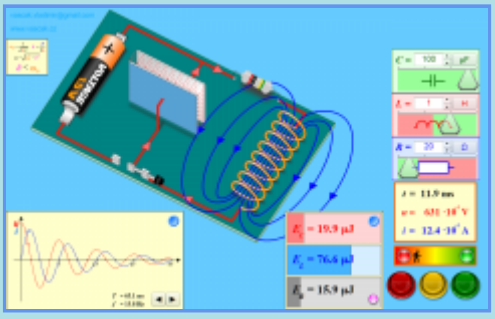
Serijski RLC spoj



Paralelni RLC spoj

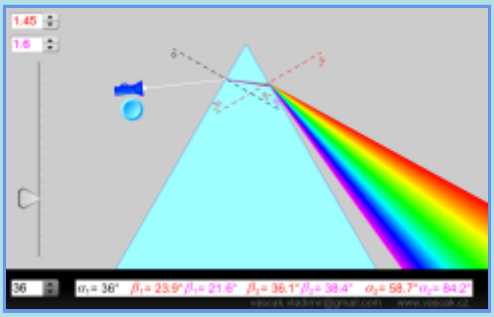


Oscilatorni krug

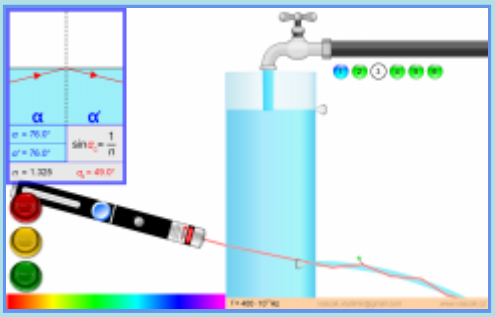


Optika

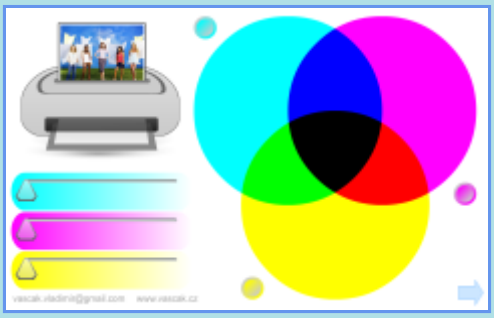
Prizma



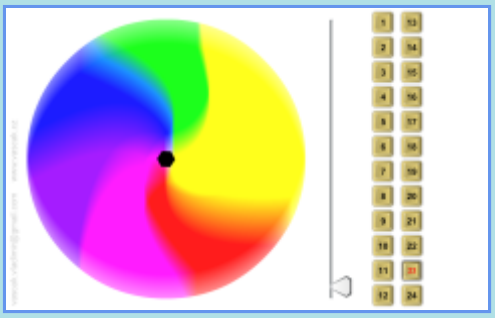
Totalna refleksija



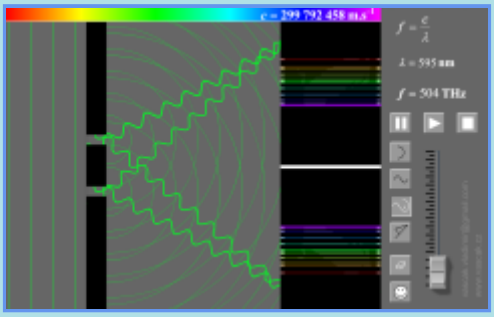
Suptraktivno i aditivno m...



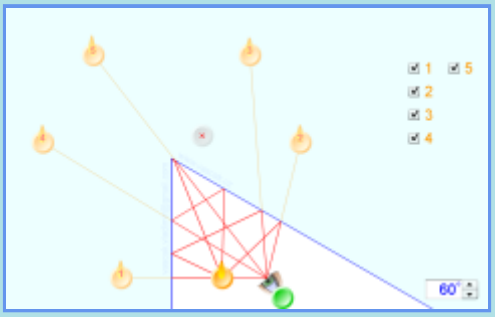
Newtonov disk



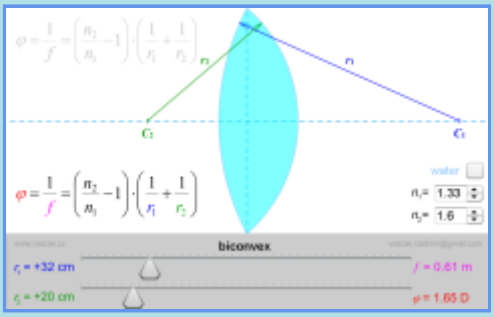
Youngov pokus



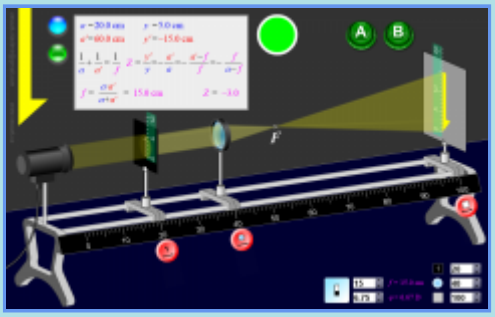
Ogledala



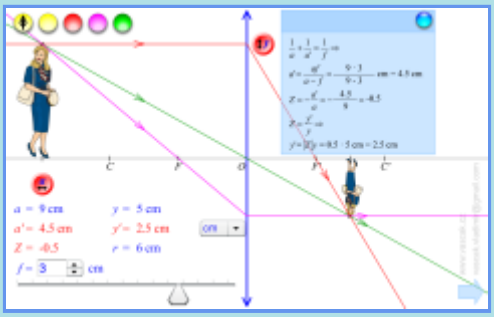
Leća



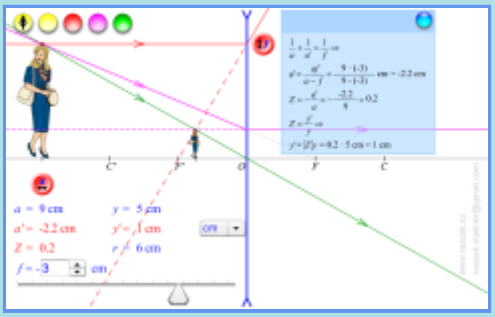
Žarišna duljina



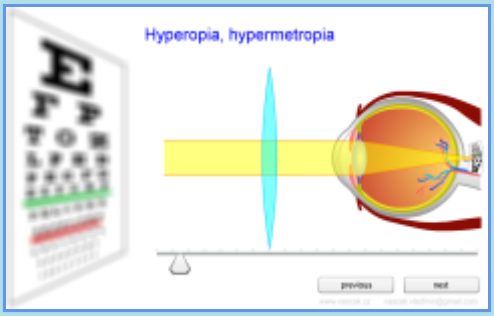
Konvergentna leća



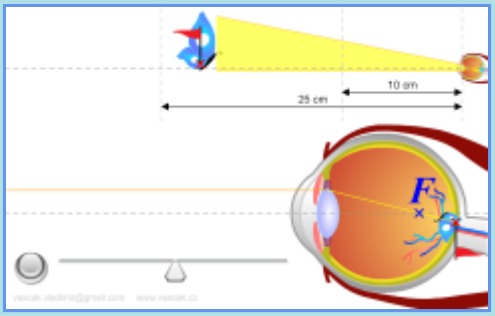
Divergentna leća



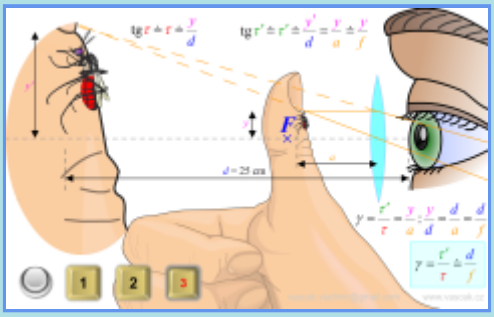
Refrakcijske greške oka



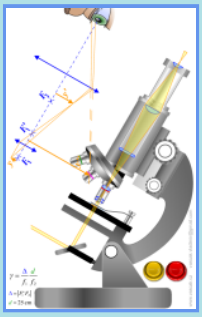
Akomodacija oka



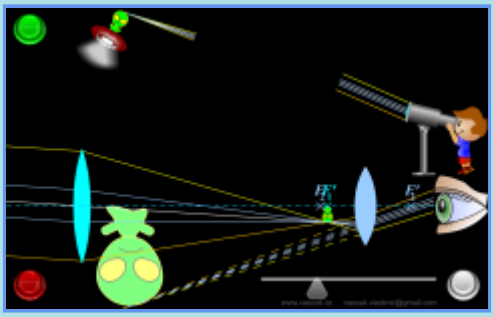
Lupa



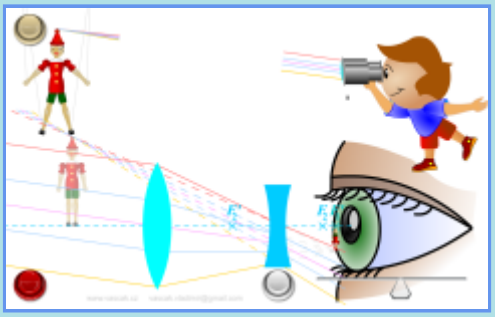
Mikroskop



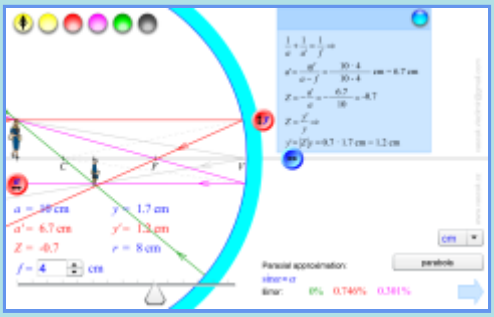
Kepler teleskop



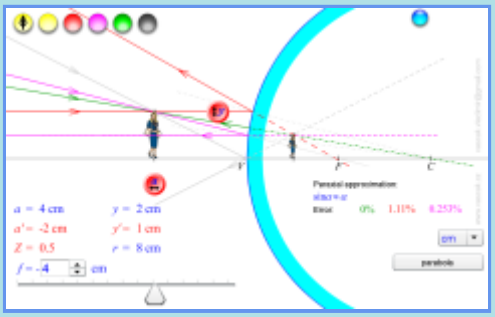
Galilejev teleskop



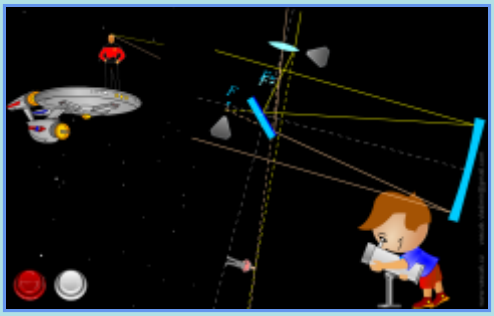
Konkavno zrcalo



Konveksno zrcalo

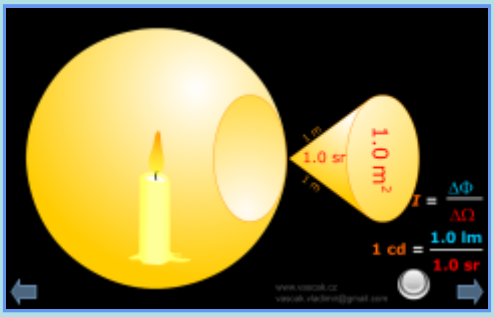


Newtonov teleskop

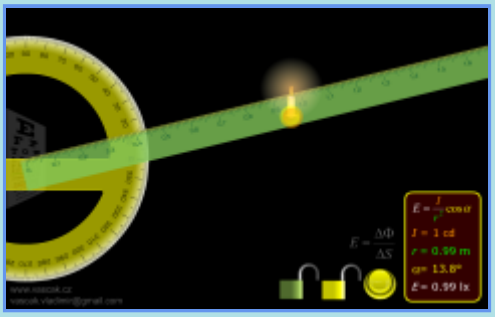


Svjetlosni tok

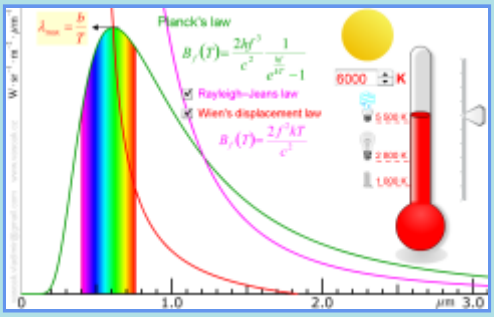
Jakost svjetlosti



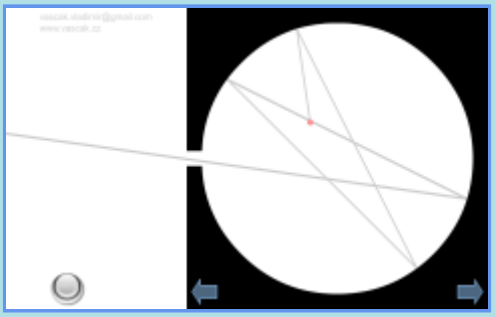
Jakost osvjetljenja



Crno tijelo

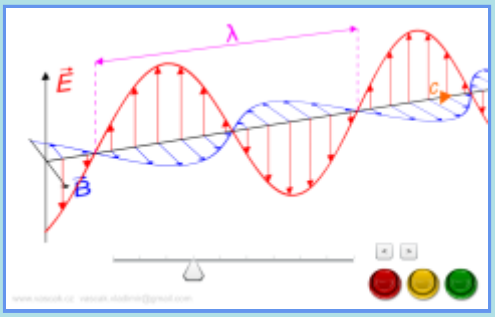


Crno tijelo - model



Fotoelektrični učinak

Elektromagnetni val

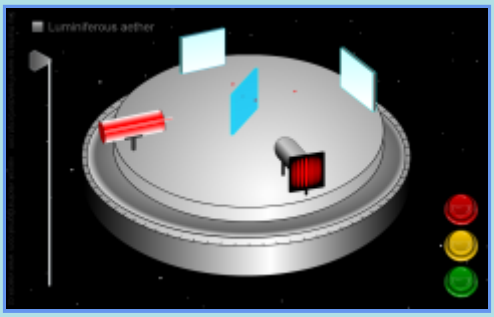


Polarizacijski filter

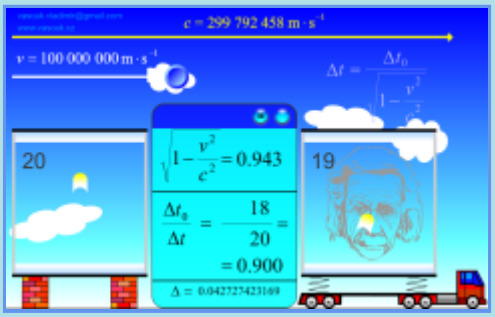
Rendgenska cijev

Posebna teorija relativnosti

Michelson-Morleyev pokus



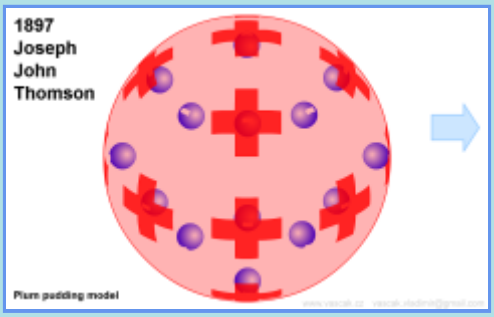
Vremenska dilatacija



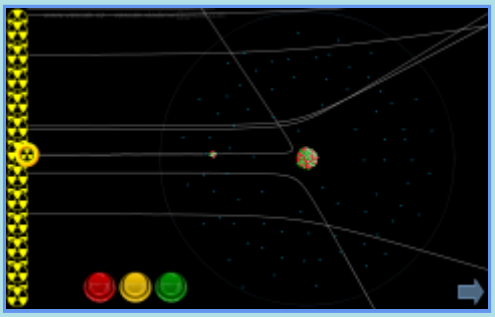
Kontrakcija duljine

Atomska fizika

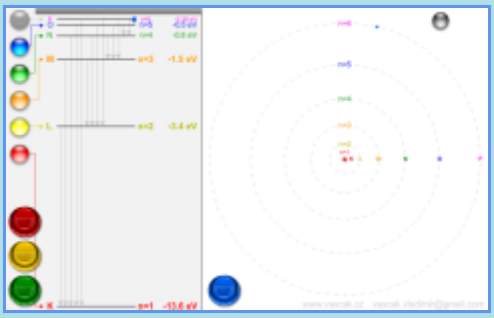
Modeli atoma



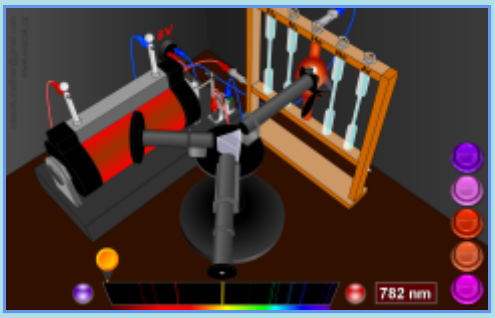
Rutherfordovo raspršenje



Bohrov model atoma

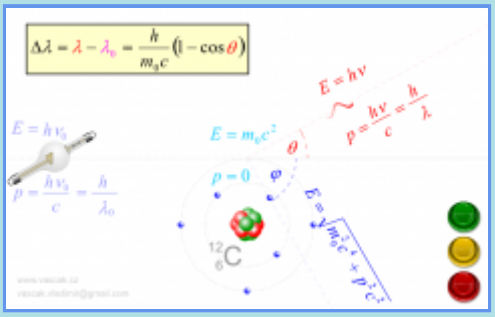


Spektroskop

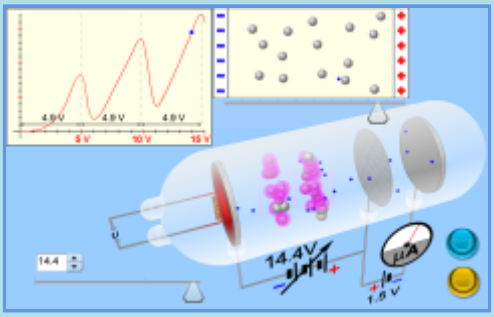


Millikanov pokus

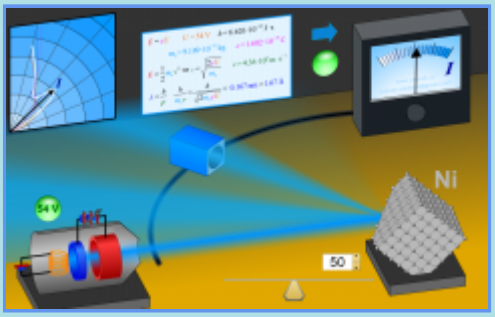
Comptonovo raspršenje



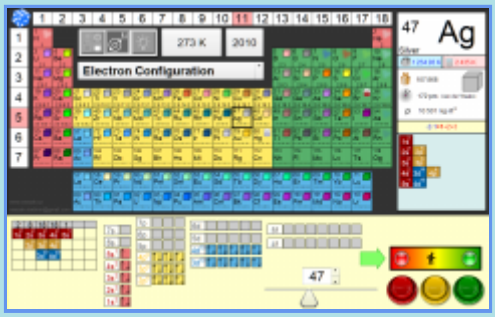
Franck-Hertz'ov eksperime...



Eksperiment Davissona i G...

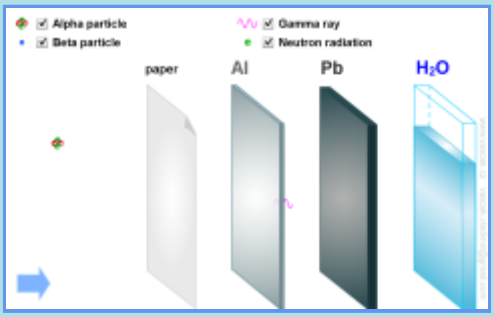


Periodni sustav elemenata

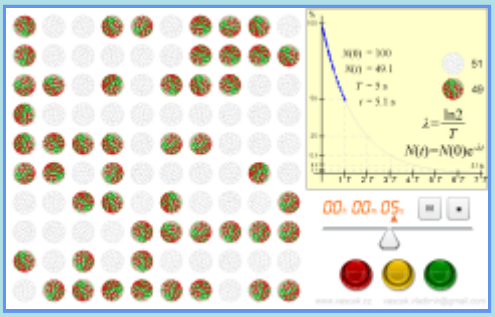


Nuklearna fizika

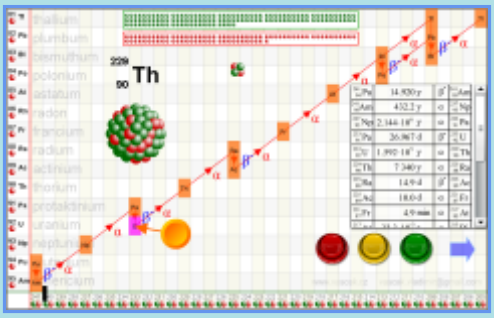
Radioaktivnost



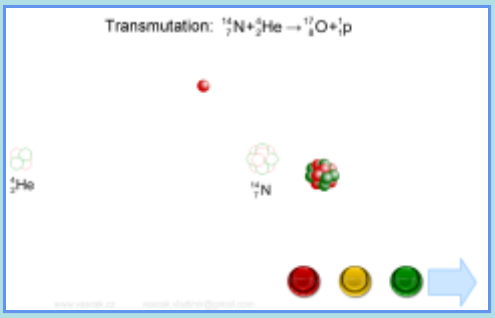
Zakon radioaktivnog raspa...



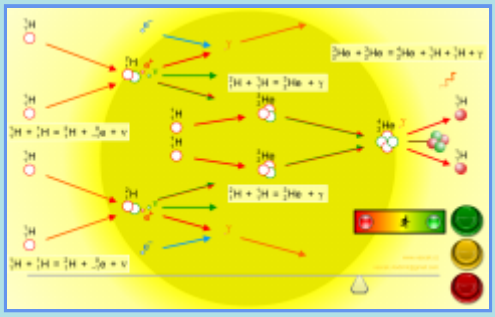
Nizovi radioaktivnih rasp...



Nuklearna reakcija

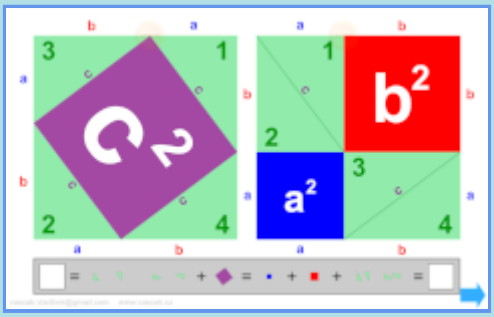


Nuklearna fuzija - Sunce



Matematika

Pitagorin poučak



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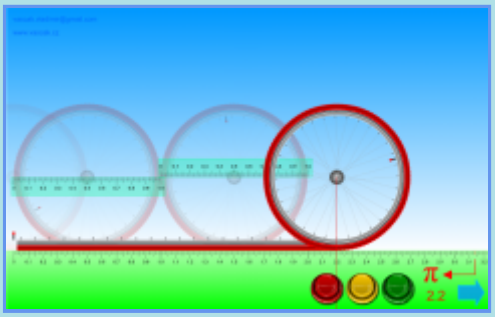
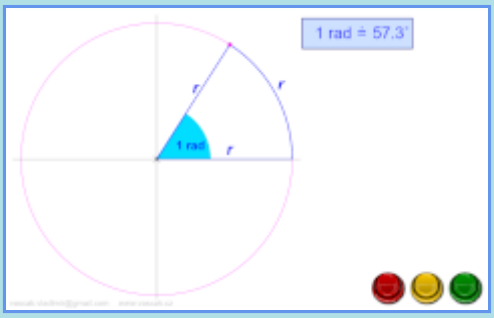
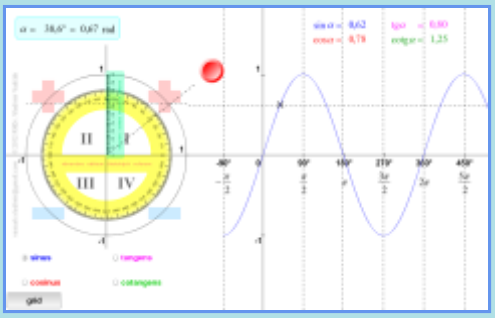


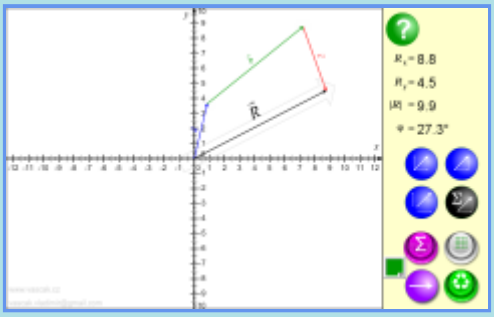
Radijan



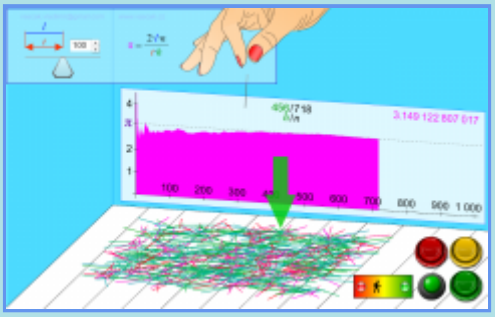
Jedinični krug



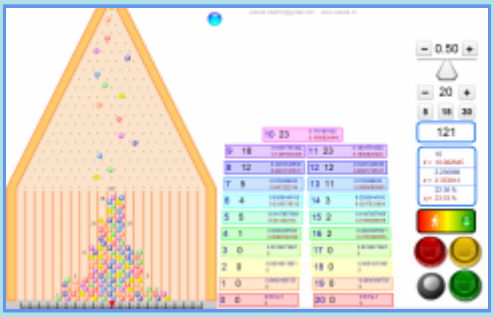
Zbrajanje vektora



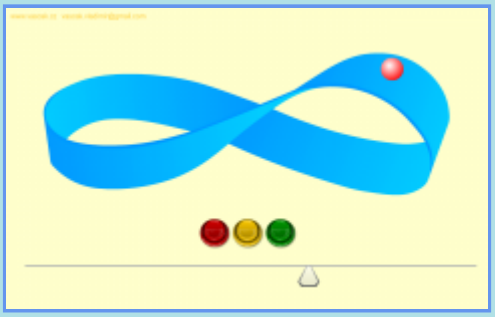
Buffonova igla



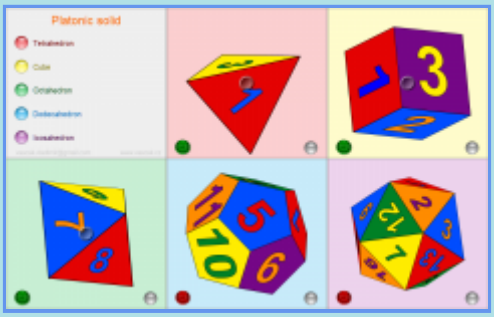
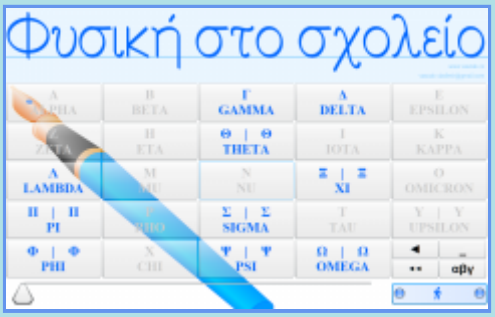
Galtonova daska



Möbiusova traka



Platonova tijela



Grčki alfabet