

# **ANATOMY**

## **HUMAN ANATOMY**

“THE BODY SONG”

<https://www.youtube.com/watch?v=hoMhmGdOXDg>

Digestive System

<https://www.youtube.com/watch?v=Og5xAdC8EUI>

Muscular System- How it works

<https://www.youtube.com/watch?v=VVL-8zr2hk4>

Circulatory System

[https://www.youtube.com/watch?v=f9ONXd\\_-anM](https://www.youtube.com/watch?v=f9ONXd_-anM)

Skeletal System

<https://www.youtube.com/watch?v=2k6H2Vnn3o4>

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# **PHYSICS**

## **STATIC ELECTRICITY**

How its produced

<https://www.youtube.com/watch?v=ZF3-mwLq6Q8>

Van Derr Graff Generator

<https://www.youtube.com/watch?v=prCUP7o-03M>

Static Electricity and Bubbles

<https://www.youtube.com/watch?v=hoswNJZqUX0>

## **THERMODYNAMICS**

Thermodynamics: Crash Course Physics #23

<https://www.youtube.com/watch?v=4i1MUWJoI0U>

## **SOUND**

What is Sound?

<https://www.youtube.com/watch?v=3-xKZKxXuu0>

How to see sound

<https://www.youtube.com/watch?v=BoeDI-YkzI0>

The Science of Light and Color

<https://www.youtube.com/watch?v=9Vsl0lom3S0>

## **LIGHT**

How do we see color?

<https://www.youtube.com/watch?v=DJDBTNbAWOE>

Introduction to Light

[https://www.youtube.com/watch?v=Xf\\_VZ8GxU1Y](https://www.youtube.com/watch?v=Xf_VZ8GxU1Y)

## **REFLECTION**

Reflection of Light

<https://www.youtube.com/watch?v=skGmQC87Bvg>

What are the Laws of Reflection of Light?

<https://www.youtube.com/watch?v=OrobTDEYs2M>

Laws of Reflection of Light(Experiment)

<https://www.youtube.com/watch?v=YFgSHRCRa6k>

What are Real and Virtual Images?

[https://www.youtube.com/watch?v=EwBK\\_cXUTZI](https://www.youtube.com/watch?v=EwBK_cXUTZI)

Concave Mirror Images - Characteristics

<https://www.youtube.com/watch?v=Hp0PsU6mUGs>

Convex Mirror - Image characteristics

<https://www.youtube.com/watch?v=TpN6xuYxwms&pbjreload=10>

Uses of Concave Mirrors

<https://www.youtube.com/watch?v=QMEIx44Ikss>

## **REFRACTION**

Refraction of Light - Why does a pencil look bent in water?

<https://www.youtube.com/watch?v=SeaWCamCHWQ>

light absorb reflect refract

<https://www.youtube.com/watch?v=k0eGjaEWpPU>

What is refraction of light

[https://www.youtube.com/watch?v=lkv0uZTP\\_zo](https://www.youtube.com/watch?v=lkv0uZTP_zo)

light refraction in a glass air surface, varying incidence angle

<https://www.youtube.com/watch?v=8VZHym6HqVU>

Snell's law of Refraction

<https://www.youtube.com/watch?v=yfawFJCRDSE>

Laws of Refraction of Light

[https://www.youtube.com/watch?v=4l2thi5\\_84o](https://www.youtube.com/watch?v=4l2thi5_84o)

Why does Refraction occur?

<https://www.youtube.com/watch?v=X3BYFv-CaJM>

How does Change in Speed result in Change of Direction of Light?

<https://www.youtube.com/watch?v=e5pKQk4JEao>

## **SPECTRUM TUBES**

Emission and Absorption Spectra

<https://www.youtube.com/watch?v=1uPyq63aRvg>

STEM Product - Spectrum Tube

<https://www.youtube.com/watch?v=-1JcSaovkYg>

Spectrum Demo: Continuous and Emission

<https://www.youtube.com/watch?v=oe5fa-f0S0>

Spectral Lines Demo

[https://www.youtube.com/watch?v=2ZlhRChr\\_Bw](https://www.youtube.com/watch?v=2ZlhRChr_Bw)

## **MAGNETISM**

10 AMAZING SCIENCE EXPERIMENTS!

<https://www.youtube.com/watch?v=2L0ZHxcoWhM>

Magnetism: Crash Course Physics #32

<https://www.youtube.com/watch?v=s94suB5uLWw>

How to Make An Electromagnet [intro risque']

<https://www.youtube.com/watch?v=Gk-SBhNY-IM>

Amazing Electric Motor With Aluminum Cans And Simple Materials

<https://www.youtube.com/watch?v=A7Q37jqlrng>

## **FLUIDS**

EASY SCIENCE EXPERIMENTS FOR KIDS

<https://www.youtube.com/watch?v=McVpXiSttnU>

Sink or Float

[https://www.youtube.com/watch?v=eQuW8G2QV\\_Q](https://www.youtube.com/watch?v=eQuW8G2QV_Q)

## **ELECTRICITY**

Introduction to Electricity- video for kids

<https://www.youtube.com/watch?v=Uf76pThNXZc>

Electrical Conductivity

<https://www.youtube.com/watch?v=QZPURSF5iH4>

Types of electrical circuits

[https://www.youtube.com/watch?v=RQ3djios\\_LY8](https://www.youtube.com/watch?v=RQ3djios_LY8)

## **ELECTROLYSIS**

Hoffman Electrolysis Demonstration Apparatus

<https://www.youtube.com/watch?v=RpNHqur0j6w>

The Hofman Voltmeter: electrolysis of water

<https://www.youtube.com/watch?v=DFf0vP3Dtb4>

Hoffmann Water Demo

<https://www.youtube.com/watch?v=BUapIQnyljk>

Electrolysis of water experiment using pencils

<https://www.youtube.com/watch?v=PHPc7Oaq2WA>

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## **CHEMISTRY**

The TOP 7 crystal-growing experiments

<https://www.youtube.com/watch?v=j-MqPHbLotE>

What is Chemistry?

<https://www.youtube.com/watch?v=j7d6RETP6PQ>

What is Chemistry?

<https://www.youtube.com/watch?v=t8x3wdXZGEY>

What is the Periodic Table of Elements?

<https://www.youtube.com/watch?v=QM4fQnxLixY>

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## **BIOLOGY**

### **DAPHNIA**

Daphnia magna under the Microscope

<https://www.youtube.com/watch?v=A4TRXFGV8Bg>

### **PLANTS**

The Plant Cells and its parts

<https://www.youtube.com/watch?v=XOdK3De8f60>

Photosynthesis

<https://www.youtube.com/watch?v=yHVhM-pLRXk>

Typical Structure of a flower

[https://www.youtube.com/watch?v=jJ5K78\\_TIEY](https://www.youtube.com/watch?v=jJ5K78_TIEY)

Pollination (Types)

<https://www.youtube.com/watch?v=aT-ueLkQKw>

Fertilisation and Post-fertilisation changes

<https://www.youtube.com/watch?v=vMyKhxCey1Q>

Seed dispersal

<https://www.youtube.com/watch?v=06sbmWAZoys>

Parts Of A Plant (The Dr. Binocs Show)

<https://www.youtube.com/watch?v=p3St51F4kE8>

## **INSECTS - SILKWORM**

Silk Worm Life Cycle

<https://www.youtube.com/watch?v=nDADfHiODos>

The Life of a Silkworm

<https://www.youtube.com/watch?v=8xLCSoacVS8>

Silk and Silkworm

<https://www.youtube.com/watch?v=sqKbgqFpwbo>

## **INSECTS - BUTTERFLY**

How A Caterpillar Becomes A Butterfly

<https://www.youtube.com/watch?v=G3VMI-EY2DM>

The life of Monarch Butterfly

<https://www.youtube.com/watch?v=v4eKxyawNcQ>

## **INSECTS - LADYBUG**

The Stunning Life Cycle Of A Ladybug

[https://www.youtube.com/watch?v=ws\\_D5nXOAJg](https://www.youtube.com/watch?v=ws_D5nXOAJg)

Amazing Facts about Bugs, Beetles & Insects: Ladybugs

<https://www.youtube.com/watch?v=fy2MLFFuXZ0>

Ladybird Beetle

[https://www.youtube.com/watch?v=pm6rz\\_9YXOg](https://www.youtube.com/watch?v=pm6rz_9YXOg)

## **INSECTS - MANTISES**

Mantis: The Ultimate Assassin

[https://www.youtube.com/watch?v=aMdrl\\_zCrjo](https://www.youtube.com/watch?v=aMdrl_zCrjo)

## **INSECTS - CAMOUFLAGE**

12 Coolest Camouflage Animals and Insects

<https://www.youtube.com/watch?v=RBdbGPK1ZIQ>

Mimicry: A World of Imposters

<https://www.youtube.com/watch?v=AyzsbSJyRKs>

## **AMPHIBIANS - FROG**

From Egg to Frog in 7 Weeks!

<https://www.youtube.com/watch?v=wAcwjWi6l9Y>

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## **EARTH SCIENCE**

### **PLATE TECTONICS**

Plate Tectonics

<https://www.youtube.com/watch?v=ZTRu620blsE>

Continental Drift

<https://www.youtube.com/watch?v=rM8KrmRedSw>

How Old is the Earth? [controversial for some]

[https://www.youtube.com/watch?v=veit8\\_NESxU](https://www.youtube.com/watch?v=veit8_NESxU)

What Causes Earthquakes?

[https://www.youtube.com/watch?v=AArne-wh\\_Uc](https://www.youtube.com/watch?v=AArne-wh_Uc)

What Is An Earthquake?

<https://www.youtube.com/watch?v=dJpIU1rSOFY>

## **SOLAR SYSTEM**

Exploring Our Solar System

<https://www.youtube.com/watch?v=Qd6nLM2QIWw>

Solar System [very elementary]

<https://www.youtube.com/watch?v=zzbCEF37MfU>

Solar System 101

<https://www.youtube.com/watch?v=libKVRa01L8>

Introduction to the Solar System

<https://www.youtube.com/watch?v=TKM0P3XIMNA>

The Sun

<https://www.youtube.com/watch?v=b22HKFMIfWo>

The Earth

<https://www.youtube.com/watch?v=w-9gDALvMF4>

The Moon

<https://www.youtube.com/watch?v=mCzchPx3yF8>

Mercury

<https://www.youtube.com/watch?v=P3GkZe3nRQ0>

Venus

<https://www.youtube.com/watch?v=ZFUgy3crCYY>

Mars

<https://www.youtube.com/watch?v=I-88YWx71gE>

Jupiter

<https://www.youtube.com/watch?v=Xwn8fQSW7-8>

Jupiter's Moons

<https://www.youtube.com/watch?v=HaFaf7vbqpE>

Saturn



<https://www.youtube.com/watch?v=E8GNde5nCSg>

Uranus & Neptune

<https://www.youtube.com/watch?v=1hlwD17Crko>

Asteroids

<https://www.youtube.com/watch?v=auxpcdQimCs>

Comets

<https://www.youtube.com/watch?v=yB9HHyPpKds>

The Oort Cloud

[https://www.youtube.com/watch?v=ZJscxTyl\\_\\_s](https://www.youtube.com/watch?v=ZJscxTyl__s)

Meteors

<https://www.youtube.com/watch?v=TuDfZ2Md5x8>

## **ASTRONOMY**

Light [relative to astronomy]

<https://www.youtube.com/watch?v=jjy-eqWM38g>

Distances

<https://www.youtube.com/watch?v=CWMh61yutjU>

Stars

<https://www.youtube.com/watch?v=ld75W1dz-h0>

Exoplanets

<https://www.youtube.com/watch?v=7ATtD8x7vV0>

Brown Dwarfs

[https://www.youtube.com/watch?v=4zKVx29\\_A1w](https://www.youtube.com/watch?v=4zKVx29_A1w)

Low Mass Stars

<https://www.youtube.com/watch?v=jfvMtCHv1q4>

White Dwarfs & Planetary Nebulae

<https://www.youtube.com/watch?v=Mj06h8BeeOA>

High Mass Stars

<https://www.youtube.com/watch?v=PWx9DurgPn8>

Neutron Stars

<https://www.youtube.com/watch?v=RrMvUL8HFIM>

Black Holes

<https://www.youtube.com/watch?v=qZWPBKULkdQ>

Binary and Multiple Stars

<https://www.youtube.com/watch?v=pIFiCLhJmig>

Star Clusters

<https://www.youtube.com/watch?v=an4rgJ3O21A>

Nebulae

[https://www.youtube.com/watch?v=W8UI7F43\\_Yk](https://www.youtube.com/watch?v=W8UI7F43_Yk)

The Milky Way

[https://www.youtube.com/watch?v=tj\\_QPnO8vpQ](https://www.youtube.com/watch?v=tj_QPnO8vpQ)

Galaxies, part 1

<https://www.youtube.com/watch?v=l82ADyJC7wE>

Galaxies, part 2

[https://www.youtube.com/watch?v=\\_O2sg-PGhEg](https://www.youtube.com/watch?v=_O2sg-PGhEg)

Gamma-Ray Bursts

<https://www.youtube.com/watch?v=Z2zA9nPFN5A>

The Big Bang

<https://www.youtube.com/watch?v=9B7lx2VQEGo>

Moon Phases

<https://www.youtube.com/watch?v=AQ5vty8f9Xc>

Eclipses

<https://www.youtube.com/watch?v=PRgua7xceDA>