

# “Rock-On” Educational Videos

5<sup>th</sup> Grade Science

## Anatomy Blues

Well it's our body...it's Anatomy Blues

The respiratory system is where we breathe in all the air  
We inhale to the lungs to get the oxygen to blood down there  
And the trachea is the tube in the throat for the air  
And the diaphragm moves down to inhale then back up to exhale

Well let's all sing about the Anatomy Blues

The circulatory system is where the blood pulses through our heart  
Blood is a tissue made of liquid called plasma and cells  
We got blood vessels, capillaries, arteries and veins  
From carbon dioxide to oxygen it's insane

Well let's all sing about the Anatomy Blues

Digestion starts when you feed your stomach with food  
Saliva helps it slide down the esophagus shaped like a tube  
And from the stomach... to the small intestine to the large too  
And from the large intestine it passes out the body as pooh Yeah

Well let's all sing about the Anatomy Blues... well that's us

The Anatomy Blues...

Oh the excretory system rids waste... and the kidneys clean the blood for our sake

Then it goes out the bladder as urine... it takes extra salt water and waste...

Well let's all sing about the Anatomy Blues... well that's us

The Anatomy Blues...

These are multi-cellular organisms... these structures help our body to function

And they transport material for us... they help us live so you can sing with us

Well let's all sing about the Anatomy Blues... well that's us

The Anatomy Blues...

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## 5<sup>th</sup> Grade Science

### It's Matter

It's matter that matters as a matter of fact, and matter in the world comes in many varied types... Elements and their combinations account for all of these, the most common are solids and liquids and gases too... You must know that during chemical reactions the atoms and their reactants rearrange... To form products with different properties, like a block of wood or milk or oxygen

All matter in the world is made of atoms, which may combine to form molecules  
Electron microscopy can see atoms and molecules... it shows them orderly and in repeating patterns... You must know the difference between mixtures and compounds

In mixtures they combine physically, and compounds combine chemically,  
The elements unite in definite proportions

Metals have properties in common such as high electrical and thermal conductivity... Some metals such as aluminum, iron, nickel, copper, silver and gold are pure elements... Others such as steel and brass are composed of a combination of elemental metals

Each element is organized by their chemical properties, in the Periodic Table you should know... And the atomic number increases from left to right, and line by line down the periodic table... The elements are determined by their atoms, the atomic number is it's most important part... And the chemical symbol is one or two letters that stand for the name of the element

Living organisms and most materials are composed of just a few elements  
They are carbon, oxygen, nitrogen, sulfur and phosphorus  
The number of atoms used as building blocks is relatively small  
The way in which atoms are organized into molecules provides variety  
By weight 98.59 percent of Earth's entire crust consists of eight elements:  
They are oxygen, silicon, aluminum, iron, calcium, sodium, potassium and magnesium.  
There are nearly 3500 known minerals in Earth's crust.

Salts are compounds typically made of metals and non-metals, they are hard and brittle and melt in high temperatures... And most salts they dissolve in water, and electrical conductors they become... They're made when strong bases react with strong acids... Like Hydrochloric Acid and Sodium Hydroxide... the sodium and chlorine evaporate to make the salt

That's sodium chloride... that's the salt

That's Matter

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5<sup>th</sup> Grade Science

## It's Our Weather

It's weather to you... It's weather to me...

Weather is the condition of the atmosphere

A blanket around the earth with two hemispheres

The Sun's energy heats the Earth unevenly causing air to move around

In the troposphere it's found...

Convection currents is moving air, always changing the weather so beware

It's weather to you... It's weather to me... It's weather to you... always changing indeed

Earth's water cycle between land and the sea

Temperature and air pressure are all factors you see

And the air pressure decreases the further out that you go

At some point it's equal in all directions you know

Convection currents is moving air, always changing the weather so beware

It's weather to you... It's weather to me... It's weather to you... always changing indeed

Well weather maps and data predict the weather on earth

There are many different variables you got to learn what it's worth

A cloud forms when warm air rises, expands and then cools

There's "cold fronts" and "warm fronts" "high pressures" and "low pressures" too

So a cold front is the cold air pushing into the warm,

You get really nasty weather heavy rains and thunderstorms

And the warm front is the warm air pushing into the cold

Often bringing high clouds and sometimes rain let it be told

But there're many fierce storms on Earth with tornados and hurricanes the worst

And winds that destroy and harm, take shelter or leave be warned

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## **Life Science**

All organisms need this...to live and grow

It's energy and matter... It's something you need to know

And plants are the primary source...of matter and energy

Entering most all food chains...they're just plants you see

Let's learn about things that we need to know

Life science that matters it's what makes us go

Let's learn about things that we need to know

Life science that matters it's what makes us go

Producers and consumers they produce and consume

The herbivores and carnivores and omnivores too

And the decomposers recycle the matter...

From dead plants and animals it really does matter...

Micro-organisms and insect too

Including many fungi that's what they do...

And they all must compete with each other brother

For resources in their ecosystem big dog...

And all living organisms they depend on each other...

As well as their environment for the survival of all

And ecosystems are characterized... by components of living and non

We all must remember... Living organisms

Let's learn about things that we need to know

Life science that matters it's what makes us go

Let's learn about things that we need to know

Life science that matters it's what makes us go

In any particular environment out there some kinds of plants and animals

survive well. Some Don't

Many plants depend and animals to pollinate animals depend on plants for food And shelter

Microorganisms don't cause disease, many beneficial so let's learn please

Let's learn... So that's my story I'm sticking to it and it's life science time so

let's just do it

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## Photosynthesis

Photosynthesis, Photosynthesis, Plants grab energy from the sun  
Creating a chemical reaction between water and carbon -dioxide  
Photosynthesis, Photosynthesis, It produces sugar molecules... and also  
Releasing oxygen molecules into the air  
Photosynthesis, Photosynthesis, sugars only just the start  
The plant modifies sugar and creates organic molecules  
Photosynthesis, Photosynthesis, the sugar moves on down the stem  
Creating large organic molecules that build the plant  
Photosynthesis, In Reverse, Is cellular respiration  
A chemical breakdown of sugar, that's carbohydrates  
Plants and animals, plants and animals  
Break it down for the energy  
A process resulting in carbon dioxide and water.... it's respiration  
Transported then, transported then  
To the lungs in the animals  
Exchanged in the lungs are carbon dioxide and oxygen  
That's Photosynthesis

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## Solar Trip

Let's take a solar trip

Here are the planets from the sun... all in all it's all in fun

Starting with the sun just an average star

Made of hydrogen and helium it's hot by far

It's the center holding nine in our solar system

The biggest one too so learn and listen

It's got the Earth with a moon and eight planets more

With satellites around them by their door

It's the Earth with life in our solar system... are we alone?

It's the universe filled with galaxies... are we alone?

So here are the planets... in a row... we'll start from the sun... then out we'll go  
Mercury, Venus, Earth, Mars, Jupiter... Saturn, Uranus, Neptune too Pluto last  
then we're through

Mercury, Venus, Earth, Mars, Jupiter...

Saturn, Uranus, Neptune too Pluto last then we're through

Well all these planets orbit around our sun in predictable manners it's nine on  
one... Comets that are icy balls of dust and rock... meteors are falling stars a  
wish or not... And the Big Bang Theory is what we learn and the Milky Ways our  
galaxy in a spiral turn

So the universe is really big...expanding out like a balloon can you dig?

It's the Earth with life in our solar system... are we alone?

It's the universe filled with galaxies... are we alone?

So here are the planets... in a row... we'll start from the sun... then out we'll go  
Mercury, Venus, Earth, Mars, Jupiter...

Saturn, Uranus, Neptune too Pluto's last then we're through

Mercury, Venus, Earth, Mars, Jupiter...

Saturn, Uranus, Neptune too Pluto's last then we're through

That's our solar... solar trip yeah - That's our solar... solar trip yeah

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## Water Cycle

Water on Earth... has a water cycle

And most of Earths' water is in salt-water oceans

Evaporation from the oceans turns into vapor in air

Then moves around us as fog and clouds made of droplets of water or cold as ice

To Earth it falls... as rain, hail, sleet or snow

To Earth it falls... that's the way it goes

Condensation is the vapor that moves through, through the air

Reappearing as a liquid rain or a solid like snow it's all the same

To Earth it falls... as rain, hail, sleet or snow

To Earth it falls... that's the way it goes

Most of Earths water is in salt-water oceans it covers the surface way more than land

But the fresh water here... the kind that we need

Comes for glaciers and rivers and lakes and underground too

In limited supply we must conserve...

Recycle is the answer... Recycle is the answer... Recycle is the answer...

Recycle is the answer... Recycle is the answer... Recycle is the answer...

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