Welcome!

As you can see, this world is rather gloomy…it seems to be lacking energy.

And over there, the mighty Aries is sleeping.

Today we’re going to be talking about the movement of energies.

Energy provides us the power to act, and the ability to change. Though Aries is a bundle of energy, he is currently at rest.

We will need to transfer some energy into Aries so he can take action, and bring light into this gloomy world!

(level 1)

Energy comes in many forms, and each have their ways of moving about.

We will start with light.

Light is a kind of energy that can provide heat.

Think of the sun as the biggest source of light energy that provides most life its sustenance, like plants.

(show puzzle, then light)

Here we have a spirit that represents the light energy.

In order for the light energy to move, we’ll need to rotate these contraptions.

(show tutorial)

Simply move the contraption like so!

(rotated contraption)

Great! Now just one more, and the light shall shine through!

(rotated contraption)

(happy light)

Excellent! Now that the light energy is moving out into the world, why don’t we check down below!

(level 1 victory)

(show light open)

As the warm light embraces Aries’s body, he begins to wake up!

(aries wakes up)

Thanks to your efforts, Aries is filled with renewed energy from the light!

(aries transforms)

Now he can go forth, and spread the light across the world!

Let’s help him out further as we learn about energy movements!

(level 2)

Now we’ll be learning about moving light energy from one place to another.

One neat thing about light is that it can bounce off of certain things like gems or mirrors.

(show first task)

Our task is to redirect the light towards this bell.

(show object / pointer) (top dialog)

This gem here is specially made to bounce the light where we want it to go.

(show drag instruct)

Go ahead and place the gem into the indicated slot.

Simply press the gem, and drag it into the slot as shown.

(object placed)

Excellent! As you can see, the light energy is bouncing off of the gem towards a direction.

(show next object)

Now on to the next gem! Just like before, drag the object towards the indicated slot.

(object placed)

We’re almost there. Now we just need to adjust the direction of the light towards the bell.

(show instruction)

All you need to do is press and drag the lever to rotate the slot.

(goal reached)

Excellent! Can you hear that? The bell is ringing joyously!

Due to the light’s energy, the bell is able to vibrate causing it to make another type of energy: sound.

As you can see, we are able to change from one energy into another. From light energy to sound energy.

But of course, none of this is possible without your actions!

Your own energy allows these energies to bring things to life.

(show the rest) (dialog top)

Now to power up the other bell!

Just like before, place the gems into the slots, and redirect them towards the bell.

(all goals reached)

(level 2 victory)

(level 3)

Now that we’ve seen energy as light, let’s take a look at energy as motion.

When objects move, they contain energy. Then when that moving object hits another, that energy is transferred.

This is called energy of motion, or in short, kinetic energy.

(balls appear)

(show plunger instruction) (top dialog)

Let’s go check out how this energy of motion works!

Pulling this spring plunger will allow it to push the rock.

The further left you drag the handle, the more push it will give.

(show push platform pointer)

Try to have the rock hit this platform. Remember to pull the spring plunger as far back as you can!

(platform pushed)

(wait a bit)

Nicely done! As you can see, the energy of motion moved from one object to the other.

The energy from pulling the spring plunger has caused it to move the rock, effectively transferring its energy.

That rock’s movement has caused it to push the platform, which activated its mechanism to launch the second rock.

(show pointer to goals)

Now let’s see if you can ring these bells!

(show pointer to rotator handle, arrow towards push platform)

You’ll need to adjust the direction of this rock so that it can launch towards the second platform.

(show pointer to slider handle, arrow up and down)

You’ll also need to adjust the position of this rock so it can launch, and push towards both bells.

(hide pointer)

Well, it’s all up to you now! Good luck!

(level 3 victory)

(level 4)

Now we are going to look at another way to achieve energy from motion.

(spirit appear, waters activated)

Here we have a spirit that provides us a flow of everlasting water.

The water’s motion will allow any object it touches to continuously move, thus providing a constant flow of energy.

(activate two switches, point at it)

Press these two switches to divert the water’s flow towards the bell.

You’ll then see how the water’s flow will cause the bell to activate.

(goal achieved)

Excellent! So long as there’s water flowing, the bell will continue to ring.

(point at other bells)

Now why don’t you go ahead and let the water flow towards the other bells!

(activate the rest of the switches)

(all bells ringing)

Nicely done! As you can see, water is a great source of continuous energy.

You can see many examples of this in the real world, such as water dams.

With a little bit of imagination, and understanding of the world, we are able to provide so much energy from nature!

(level 4 victory)

(level 5)

Here we are near the end of our journey!

For this one, we will be powering up the bells with electricity.

Electricity is a kind of energy that can move through conductive materials like metal.

In this case, we are using copper wires.

(show turbine machine)

This is a turbine, a kind of machine that generates electrical energy by spinning magnets.

In order to power the turbine, we will need a strong energy to move its blades.

(show water thing)

One way to do that is through steam coming from boiling water.

By concentrating the steam through a narrow pipe, its energy will be strong enough to power the turbine.

(show fire pit)

Now in order to boil water, we will need energy to heat it up.

That’s where fire comes in. Fire releases energy that heats things up, also known as thermal energy.

(show coal thing)

But in order to keep the fire going, it will need some fuel of sorts.

Well, that’s what these coals will do. Another type of energy that is transformed into fire with a bit of spark.

(refresh dialog)

Whew! That’s a lot of energy movement from one form to another!

Now you’re wondering why go through all this trouble?

Well, the thing about electrical energy is that it is really easy to move it from one place to another.

This way we are able to have one place to generate lots of energy to power up multiple homes.

(coal interact pointer)

Anyhow, let’s turn up the heat!

Go ahead and press the lever to feed the fire.

(wait for one power to activate)

Nice! Here you see the whole process of energy moving from one form into another, and finally into electricity.

(show power connect drag)

Now let’s power up that bell by attaching the power line into the socket.

Simply drag the power plug into the socket as shown.

(goal powered)

Excellent! Now we just need to power up the rest of the bells!

Though you may have noticed that only one of the power lines were able to receive electricity.

Well, we’ll just have to fan the flame to make it release more heat!

(show wind spirit)

We just have one more energy to move to generate more electricity.

By feeding the fire more oxygen, it will allow it to burn through the coal faster, thus producing more heat.

With more heat, the water will turn to steam quicker, and that will allow the turbine’s fan to move faster for more electricity.

(point at wind spirit)

Simply press the wind fella multiple times until all the power lines receive electricity.

(all power lines receive energy)

Excellent! With the turbine fully powered, you can now plug in the rest of the power lines to activate the other bells.

Just like before, simply drag the power plug into one of the sockets that connect to the bell.

Also remember to keep the fire well fed with coals and oxygen from the wind!

(all bells ringing)

Nicely done! With all the bells ringing, we have reached the end of our journey.

This concludes our lesson for energy movement!

Now go forth, and bring energy into the real world!

(end)

Thank you for playing!