

Sensory and Music Story: A Night at the Science Museum

Props:

Eye goggles/ visors
Apples
Bubbles
Water
Ice
Cornflour
Bicarb and vinegar
Instruments
Tissue boxes and rubber bands
Balloon

The Story:

This week we are going to explore science, by going on a trip for a Night at the Science Museum!

Sing: We're all going...

When we arrived at the science museum we were met by Professor Donna – she looked very clever – and she had VERY big ears!

The Professor was very excited to show us around the science museum – she told us that actually science is everywhere! She took us on a whirlwind tour, to show us lots of different bits of science – and to show us what we use every day!

The Professor issued us all with our protective eye wear

Feel: wear goggles

First of all, the Professor showed us about gravity! She told us that many years ago, a man named Isaac Newton had been sitting in his mum's garden when an apple had fallen off the tree and hit him on his head! This made him think

about how we all stay on the earth and don't fall off, and that everything is pulled down!

What scientific discoveries can we make when an apple falls on us?!

Feel: Drop an apple!

Sing: The Gravity Song

But what happens if we... defy gravity? Will we all just float around?!

Sing: Defying Gravity – with bubbles

Well, we had done gravity! The Professor took us next door to the Matter Room. We wondered what the matter was...

Sing: The Matter Song

We looked at some liquids, and some solids... and even something that was both!

Feel: Liquids – water; solids – ice; both – cornflour mixed with water!

We were starting to see what the Professor meant about science being everywhere – and then she said that even we were science! We went into the Biology Room to see what she meant!

Song: Head Shoulders Knees and Toes

Feel: Different areas of the body as we go through the song (as appropriate)

We went through the biology room to a related room – the nature room! Here we marvelled at the power of nature!! We saw a volcano explode!!!!

Feel: Volcano experiment – bicarb & vinegar

Song: Lava

We could hear something from another room and went to investigate! It was actually a Music Room – there is even science in music!

Sound is produced with something vibrates – and those vibrations are brought to the ear as sound waves. And it's mathematical, varying in pitch, volume, tempo, and rhythm. The science of sound reminds us to stop, listen, and feel the vibration.

Listen/feel: different resonance / feel vibrations

Make: Tissue box guitar – with rubber bands as 'strings

It was nearly time to go to sleep, so we made our way up to the Planetarium. First we learnt about Katherine Johnson, who helped NASA launch into outer space to see the stars! We let off a rocket!!

Feel: Balloon rocket and countdown

Sing: Zoom Zoom Zoom

We have learnt so much! We lay down to look up at the stars in the Planetarium.

Sing: Twinkle twinkle

Song Words

We're all Going to... *(to the tune We're all going to the Zoo Tomorrow)*

We're all going to the Science Museum

Science Museum, Science Museum

We're all going to the Science Museum

We're going to stay all night!!

What will we learn, learn, learn,

Will a bunsun burner burn, burn, burn?

Will we watch the cogs tun, turn, turn

We are going to learn, learn, learn

The Gravity Song *(Tune: Did you ever see a Lassie?)*

Well, you'll never see gravity, gravity, gravity

But you can see gravity pull this way, not that.

Chorus: Pull this way, not that way, pull this way, not that way.

You can see gravity pull this way, not that.

You toss up a ball, gravity makes it fall

Oh, you can see gravity pull things to the ground.

(Chorus)

You throw up a gown, gravity brings it back down

Oh, you can see gravity pull things to the ground.

(Chorus)

Words: Janelle Durham

Defying Gravity

Something has changed within me

Something is not the same

I'm through with playing by the rules

Of someone else's game

Too late for second-guessing

Too late to go back to sleep

It's time to trust my instincts

Close my eyes and leap

It's time to try defying gravity
I think I'll try defying gravity
Kiss me goodbye, I'm defying gravity
And you won't bring me down

Songwriters: Stephen Lawrence Schwartz. For non-commercial use only.

The Matter Song (*Tune: The Farmer in the Dell*)

Chorus: There's matter over here.

There's matter over there.

Liquid, solid, or a gas,

There's matter everywhere

A solid keeps its shape.
It doesn't separate.
What you see is what you get.
A solid keeps its shape.

When you melt a solid down,
A liquid will be found.
It's wet & flows to fill a shape.
And drips down to the ground.

Gas is in the air.
You can't see it but it's there.
It blows and flows right through your nose.
And fits in anywhere. (*Words Janelle Durham*)

Lava

A long, long time ago
There was a volcano
Living all alone in the middle of the sea
He sat high above his bay
Watching all the couples play
And wishing that he had someone too
And from his lava came
This song of hope that he sang out loud
Everyday for years and years

I have a dream
I hope will come true
That you're here with me
And I'm here with you
I wish that the earth, sea, the sky up above-a
Will send me someone to lava

Songwriters: Sven Gamsky. For non-commercial use only.

Twinkle Twinkle

Twinkle, twinkle, little star
How I wonder what you are
Up above the world so high
Like a diamond in the sky
Twinkle, twinkle, little star
How I wonder what you are

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