

That Science Gang presents...

SPLISH SPLASH SCIENCE!



EDUCATION RESOURCES

Pre-Visit and Post-Visit notes

For additional resources, please visit: <https://www.thatsciencegang.com/splishsplasheschools>

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ABOUT THAT SCIENCE GANG

That Science Gang creates “Science Theatre” for young people and their families. We facilitate collaborations between theatre creators and science communicators to produce science-infused productions that better equip audiences to ask BIG questions about the world around them.

ABOUT SPLISH SPLASH SCIENCE

Roll up! Roll up! It's the wettest science show on Earth!

Splish Splash Science is a circus-inspired musical-comedy, where the star of the show is (drum roll please...) – *water!* Hosted by circus ringmaster Rip Tide, this performance explores some of the many fascinating properties of water – through science, song and circusy shenanigans.

ABOUT THESE NOTES

These education resources are divided into two halves – PRE-VISIT NOTES and POST-VISIT NOTES. Each collection provides discussion points and activity ideas that encourage an exploration of the *water*, as well as the core framework of the show.

We will be adding other resources to our website during 2026/2027. Make sure you check them out (including our curriculum links):

<https://www.thatsciencegang.com/splishsplasheschools>

CREATIVES

Writer / Director / Designer	David Lampard
Cast	David Lampard
Stage Manager / Lighting Designer	Amanda Rowe
Composer / Arranger	Mark Simeon Ferguson
Voice Over Artist	Rodney Hutton
Choreographer	Kerry Lynne-Hauber



PRE-VISIT NOTES

ABOUT THE SHOW

Join the circus! Our splishy, splashy SCIENCE circus!

Water is widely considered to be the most important resource on planet Earth. But what makes water so *important, useful, and necessary*?

In this show, you'll join circus ringmaster Rip Tide as he expertly explores and experiments with the exciting properties of this exceptional chemical. You'll be confounded and astounded while experiencing thrills and (actual!) spills in equal measure – as water squirts, spurts and sprays in every conceivable direction!

Plus, Rip is going to need to recruit a few more stars to join him on stage! Will you be brave enough to step into the "SPLASH ZONE"?

Filled to overflowing with circusy-science, this show will have you singing, dancing, laughing, gasping... and ducking for cover!

Oh, and there is a possibility (in fact a probability) that you might learn a thing or three... (not sorry about it!).



ABOUT THE SHOW STRUCTURE

That Science Gang's **Splish Splash Science** is framed as a 'Science Circus', presented by a circus ringmaster called Rip Tide.

At the beginning of the show, Rip uses a song to introduce the *star of the show* – water! During the song, Rip outlines a bit of basic science, as well as performs a few tricks. Then, throughout the performance, Rip uses a variety of circus acts to as a way to reveal many of the fascinating properties of water.

Towards the end of the show, Rip uses water to perform a sequence of circus-inspired acts – before bringing the show to a close with a fireball finale!

The show threads together two seemingly disparate things – science and circus – to create a single, unique performance.

THE CIRCUS

There are lots of different types of circus, as well as circus acts. We explore just a handful in **Splish Splash Science**. There are many (many!) more.



As a class, or in small groups, consider the following questions:

- How many different types of circus acts can you think of?
 - Here's a few to get you started:
Juggling, Sword Swallowing, Quick Change Magic
- Do you have any skills that you could use to create your own circus act?
 - Can you:
Ride a skateboard? Dance? Have any acrobatic skills? Or an unusual talent?
- As a class, can you create an imaginary circus...
 - You might like to consider:
 - Who will perform what act?
 - Who will be the ringmaster?
 - Is there a live band?
 - Who would prefer to work backstage – or be in the audience? 😊



ACTIVITY 1: WORKSHEET 1

CREATE YOUR OWN UNIQUE PROJECT

YOUR NAME:	
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Splish Splash Science combines two very different things to create a unique performance – a CIRCUS about WATER.

Working alone or in small groups, use the worksheet below to create your own unique project. (You don't have to actually create this 'new thing' – so, be as imaginative as you like!)

- Make a list of ACTIVITIES/EVENTS in the left column, and then a list of OBJECTS/THINGS in the right column.
- Draw a line between (random) items in each column to create your unique event – that is, an ACTIVITY/EVENT about the OBJECT/THING.
- We've given you an example to help kickstart your brains – a CIRCUS about WATER!

Make a list of: ACTIVITIES/EVENTS <i>For example: Musical / Tutorial / Quiz / ...</i>	Make a list of: OBJECTS/THINGS <i>For example: Makeup / Computer Games / Bike /...</i>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/> WATER
<input type="radio"/>	<input type="radio"/>
CIRCUS <input checked="" type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>



THE SCIENCE

Water is the most precious resource on planet Earth.

But why?

What do YOU know about water?

And what would you like to know?

As a class, or in small groups, consider the questions below.

PLEASE NOTE:

You don't need to get the answers to these questions correct! It is simply a good exercise to discover what you already know (or think you know) about a topic before you learn more. Many of these questions will be answered during our show!



- What is water?
 - *What are some uses for water?*
- What is the chemical formula for water?
- What does pure water taste like?
- What does pure water smell like?
- What colour is water?
- Is water important for life?
 - *If you answered YES, why do you think this is the case?*
- How can water be polluted?
 - *What kind of pollutants can be found in water?*
- Earth's population is currently 8.3+ billion people. Do you think there is enough water on Earth for everyone?
- What have you heard about water?
- What would you like to know about water?



POST-VISIT NOTES

THE RINGMASTER

Rip tide is the ringmaster for **Splish Splash Science**.

A ringmaster may also be called a ringmistress or ringleader. It is their job to guide and orientate audiences during a circus. They announce and introduce each new act, providing links and segues. They may also sometimes perform as part of an act...

Perhaps the most famous ringmaster of all time was PT Barnum. He was an American showman and business who (amongst other things) co-founded the Barnum and Bailey circus – often billed as 'The Greatest Show on Earth'. The movie musical *The Greatest Showman* is loosely based on the life of PT Barnum.

When a ringmaster (or ringmistress/ringleader) introduces an act, they often use heightened and exaggerated phrasing – to hype up and excite an audience. These introductions often use flowery language and complicated, impressive sounding words.

This is something that Rip Tide does during **Splish Splash Science**. He even (on occasion) makes up his own words!

Use the worksheets below to make up your own words and then an introduction for an imaginary circus act.



ACTIVITY 1: WORKSHEET 1 SPOT THE MADE-UP WORDS

Can you spot the made-up words in these introductions from **Splish Splash Science**?

ACTIVITY 2: WORKSHEET 2 CREATE YOUR OWN SPECTACULAR WORDS

Use this worksheet to make up a few of your own spectacular sounding words...

ACTIVITY 3: WORKSHEET 3 CREATE YOUR OWN CIRCUS ACT INTRODUCTION

Use this worksheet (and the words you created in **ACTIVITY 2**) to help you create a spectacular sounding introduction for an imaginary circus act.



ACTIVITY 1: WORKSHEET 1

SPOT THE MADE-UP WORDS

YOUR NAME:	
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During **Splish Splash Science** Rip Tide uses flowery language, including a few made-up words, to introduce a variety of acts. Can you spot the made-up words in the following introductions?

CIRCLE EACH MADE UP WORD in the SENTENCES BELOW... (Oh, and there is one sentence that contains NO MADE-UP WORDS!)
1) "The next time I introduce this glass of extraordinary water, I need everyone to burst into a fit of synchronous, corybantic conjubulance!"
2) "Stay awake there my friends! Keep your eyeballs, earballs and brainballs fixed and focussed in my direction."
3) "The following factabulous fact is (in fact) the factiest of all the facts I've factored into this fact-soaked factologue so far..."
4) "However, I can tell you that five astounding, audacious, astoundacious acts lie ahead..."

(TEACHERS: You'll find the answers at the bottom of page 11 of these notes ☺)



ACTIVITY 2: WORKSHEET 2

CREATE YOUR OWN SPECTACULAR WORDS

YOUR NAME:	
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Use the table below to combine two adjectives to create your very own new word. Cut up the original words and then combine them in any way you like (there are no rules!). We've provided you with a whole bunch of adjectives at the bottom of the page – but feel free to find and use your own! (Create as many new words as you like...)

ADJECTIVE 1	ADJECTIVE 1	NEW WORD
EXAMPLE: FANTASTIC	EXAMPLE: FABULOUS	EXAMPLE: FANTABULOUS <i>(FUN FACT: This is a real word!)</i>

SOME ADJECTIVES FOR YOU TO PLAY WITH...

Energetic, Exceptional, Incredible, Incredible, Astounding, Marvellous, Sensational, Superb, Terrific, Breathtaking, Dizzying, Remarkable, Astonishing, Thrilling, Stupendous, Phenomenal, Dazzling, Brilliant, Captivating, Spellbinding, Superb, Unbelievable, Inconceivable, Glamorous, Charming, Fascinating, Entrancing, Bewitching...



ACTIVITY 3: WORKSHEET 3

CREATE YOUR OWN CIRCUS ACT INTRODUCTION

YOUR NAME:	
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Use this tables below and the words you created in **ACTIVITY 2** to create an introduction for an imaginary circus act...

WHAT IS YOUR ACT? Combine a circus skill with something you enjoy doing (a hobby or a skill) to create a fun circus act!
$\underline{\hspace{10em}} + \underline{\hspace{10em}} = \underline{\hspace{10em}}$ <p style="text-align: center;"><small>(CIRCUS SKILL) (HOBBY / SKILL) (THE NAME OF YOUR ACT!)</small></p>
<i>For example...</i> Juggling + Skateboarding = Skateboarding Juggler!

CREATE YOUR INTRODUCTION... Fill in the blanks in the sentence below to create the introduction for your act (or make up your own introduction from scratch!
Folks and friends, would you please welcome to the stage $\underline{\hspace{10em}}$ <p style="text-align: center;"><small>(YOUR NAME)</small></p> the $\underline{\hspace{10em}}$ – with an act that is that is both <p style="text-align: center;"><small>(THE NAME OF YOUR ACT)</small></p> $\underline{\hspace{10em}}, \text{ and } \underline{\hspace{10em}}.$ <p style="text-align: center;"><small>(ADJECTIVE 1) (ADJECTIVE 2)</small></p> You might even say that it's $\underline{\hspace{10em}}!$ <p style="text-align: center;"><small>(NEW WORD)</small></p>
<i>For example...</i> Folks and friends, would you please welcome to the stage Rip Tide , the Skateboarding Juggler – with an act that is both fantastic AND fabulous . You might even say that it's fantabulous!



THE SCIENCE

Splish Splash Science is filled to overflowing with scientific ideas. How much can you remember from the show? What did you learn?

As a class, or in small groups, consider the following questions:

- What is the chemical formula for water?
- What does pure water taste like?
- What does pure water smell like?
- What colour is pure water?
- What are some uses for water?
- During the show, you learnt about some of the properties of water. Can you remember some of those properties?
 - *HINT: Some of these properties were explored when three brave volunteers stepped into the SPLASH ZONE! Other properties were explored when Ken demonstrated his HIGH DIVING skills!*
- During the show, you helped Rip Tide sing a song called GOOD NEWS! Can you remember the three bits of good news from that song?
 - *One was about water scarcity...*
 - *One was about plastic pollution...*
 - *One was about climate change...*
- What surprising thing(s) did you learn during the show?
- What questions do you still have about water?



MORE SCIENCE

We have curated a selection of That Science Gang videos that explore water and its many fascinating properties. You'll find these by following this link:

<https://www.thatsciencegang.com/splishsplashvideo>

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ANSWERS TO ACTIVITY 1

The following words were made up for the show:

- 1) There were no made-up words in this sentence!
- 2) **EARBALLS** and **BRAINBALLS**
- 3) **FACTABULOUS**, **FACTIEST** and **FACTOLOGUE**
- 4) **ASTOUNDACIOUS**



SONG LYRICS

SPLISH SPLASH SCIENCE

Rip Tide opens **Splish Splash Science** with a song that lists a few of the properties of water. You can find the lyrics for this song below. Can you remember the tune for the chorus?

VERSE 1

MOLECULAR STRUCTURE IS WHERE I'LL BEGIN
TWO HYDROGEN ATOMS, ONE OXYGEN
TWIN H's, ONE O – OR H₂O
THAT'S WATER (MY FRIENDS) – THE STAR OF THE SHOW

CHORUS

SPLISH / SPLASH – SPLISH-SPLASH!
JOIN THE CIRCUS
MY SCIENCEY CIRCUS
SPLISH / SPLASH – SPLISH-SPLASH!
WHERE H₂O IS THE STAR OF THE SHOW!

VERSE 2

PURE WATER IS ODOURLESS – TASTELESS TOO
AS FOR ITS COLOUR? A LITTLE BIT BLUE
WHEN SPLASHED ALL ABOUT IT MAKES EVERYTHING WET
PLUS IT'S THE MAJOR COMPONENT OF SWEAT

CHORUS

SPLISH / SPLASH – SPLISH-SPLASH!
JOIN THE CIRCUS
MY SCIENCEY CIRCUS
SPLISH / SPLASH – SPLISH-SPLASH!
WHERE H₂O IS THE STAR OF THE SHOW!

VERSE 3

AT ONE HUNDRED DEGREES IT BOILS INTO STEAM
WHEN IT DROPS BELOW ZERO IT'S GONNA FREEZE
BETWEEN THOSE TWO LIMITS IS THE LIQUIDY PHASE
FOR DRINKING, AND CLEANING, AS WELL AS FOR PLAY

CHORUS

SPLISH / SPLASH – SPLISH-SPLASH!
JOIN THE CIRCUS
MY SCIENCEY CIRCUS
SPLISH / SPLASH – SPLISH-SPLASH!
WHERE H₂O IS THE STAR OF THE SHOW...
THE MVP OF THE SHOW
LET'S HEAR...
IT FOR...
H... 2... O...!



DEEPER DIVE

We will be creating more resources for this show across 2026/2027. You can find these (as well as the most up to date version of this document) by exploring these links:

EXPLORE: <https://www.thatssciencegang.com/splishsplashexplore>

SCHOOLS: <https://www.thatssciencegang.com/splishsplashschools>

MORE FROM THAT SCIENCE GANG

If you'd like to spend a little more time with some science in the classroom, then check out these web series:

This Show is NOT Rubbish!

<https://www.thatssciencegang.com/thisshowisnotrubbish>

Let's Explore

<https://www.thatssciencegang.com/letsexplore>

