

# This week's topic: Inventors & Inventions

Dear Parents & Carers,

We hope you had a lovely half term and enjoyed the Environmental Changes topic. We have really enjoyed receiving photos of your fantastic work. This week our topic is **Inventors and Inventions**. The majority of the resources needed can be accessed online or in the home so please do not feel you have to get anything additional. We hope you have fun and find inspiration in the activities below.

The structure will be similar to previous weeks and will include activities where you can work with an adult or work independently. You might find that some of the suggested activities are great, and others not so helpful. We suggest you find the right mix for your child.

Sumdog contains daily maths and SPAG learning so please continue to use the Sumdog account and follow the White Rose scheme of work. If you have any issues with your Sumdog log-ins, please contact the school office@ dalmain.lewisham.sch.uk and we can easily provide these for you. We have included a wide range of options so please encourage your child to be independent and try to let them choose some of the activities they complete. As a guideline, we suggest no more than 45 minutes of maths and English each day and please take lots of brain breaks. Reading would be an additional activity. These are only suggested times.

As a parent, you know what is best for your child. Wellbeing Wednesday's activities will be emailed to parents and carers through Parentmail. We hope that these activities may give you ideas to stay positive during this challenging time. If you would like to share any of your fantastic work with us, then please do forward them to the school email address which is <u>admin@dalmain.lewisham.sch.uk</u> - (mark your email '**FAO Miss Sousa/ Mr Gwinnett**) we would love to see the work you have produced. Take care and stay safe,

Best wishes,

Miss Sousa and Mr Gwinett.

In your pack each week we will try to include:

- Open ended project ideas and research topics
- Activities to explore independently or together
- Daily Maths lesson
- Games to play
- Ideas for science experiments
- Art and craft ideas
- Links to other learning resources
- A use for toilet roll tubes...



Day	Tasks	Completed?
Monday	Maths:	
	Week 8 lesson 1- Order Fractions <u>Video link:</u> https://vimeo.com/427992995 <u>Worksheet:</u> https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-1- Order-fractions-2020.pdfWatch the video clip for Week 8 lesson 1, then please either print and complete the worksheet or write in your exercise book. <u>Answers:</u> https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-1- Answers-Order-fractions-2020.pdf	
	English:	
	Windrush Empire is so important to our country and to find out how the Windrush generation helped to rebuild Great Britain after World War II.         Image: Comparison of the terminal structure of the terminal structure of termi	
	The Windrush Generation	
	Following the losses of World War II, Britain was in dire need of labourers. This prompted a campaign to entice people from the countries of the British Empire and Commonwealth to immigrate to the UK.	
	On June 22, 1948, the ship HMT <i>Empire Windrush</i> landed at <u>Tilbury Docks</u> , just east of <u>London</u> , bringing with it the first immigrants from the Caribbean. The ship's name inspired the term, the Windrush Generation, to denote the large-scale influx of Caribbean immigrants during the years that followed.	

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## **Racism and Prejudice**

While the Windrush Generation and their descendants are today honoured for their immense contributions to British society following the trauma of the Second World War, the first Afro-Caribbean immigrants were met with extreme intolerance from large parts of the white population. Having initially been encouraged to settle in the UK and take up employment to relieve the labour market by the authorities, many early immigrants were denied access to private employment and accommodation on account of their skin colour. Black people were also banished from many pubs, clubs, and even churches.

From today's perspective, the arrival of the HMT *Empire Windrush* is considered a major landmark not only for the country's recovery from the turmoil of war, but also for the establishment of modern British multicultural society.

## Windrush Day Events

Windrush Day was introduced in 2018, on the 70th anniversary of the landing of the first Caribbean migrants, for the purpose of "encouraging communities across the country to celebrate the contribution of the Windrush Generation and their descendants," according to the UK government. Backed by government funding, the day features a large variety of activities, including dance performances, exhibitions, and debates.

Useful link - A Newsround Special as two children trace their roots, to discover why their grandparents came to Britain as part of the Windrush generation: https://www.bbc.co.uk/newsround/44503109

Another useful link:

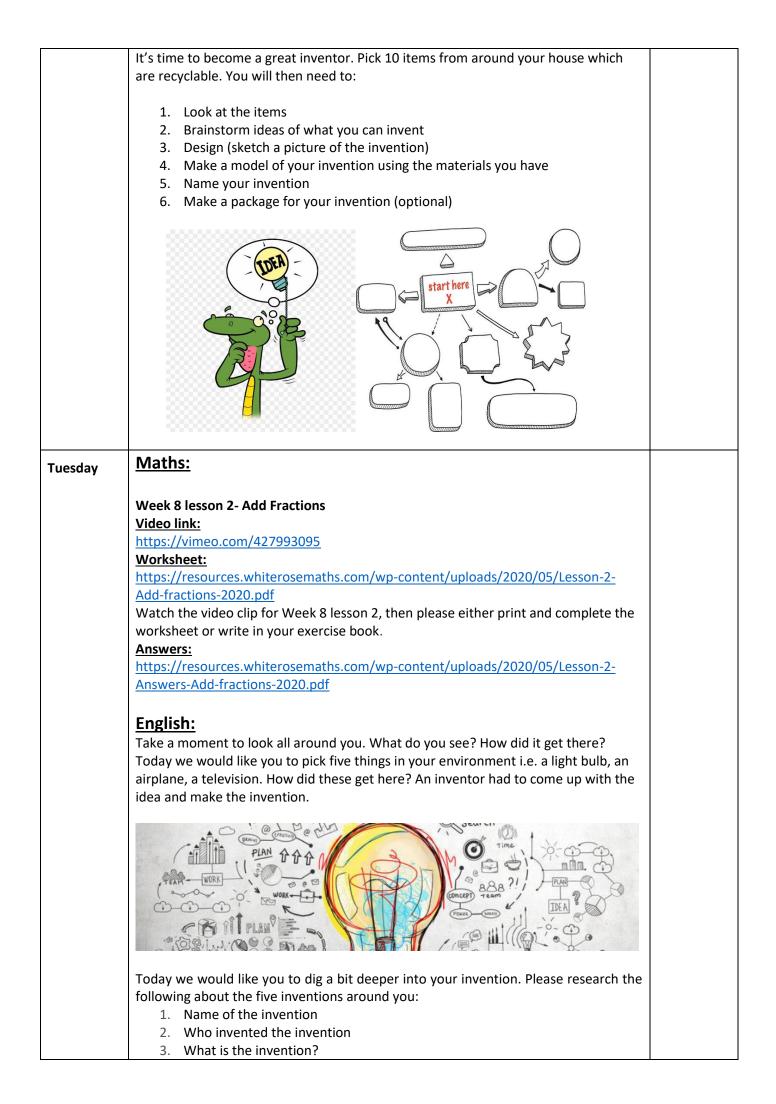
https://www.bl.uk/windrush/articles/windrush-stories-creative-writing-activitiesprimary-students

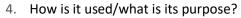
Here are some ideas to complete after your research. Please pick one to complete:

- Write a Windrush poem
- Draw a picture
- Design a commemorative stamp to celebrate Windrush Day
- Make a model of the Windrush
- "I'm celebrating Windrush Day because....." students can share their reasons either in a short video or with a photo and holding up a sign.

#### Let's get creative:

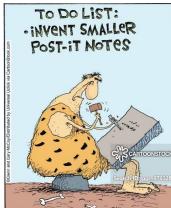






- 5. How would life be without this invention/why is it so important?
- 6. A picture of the invention

You can present your finidings in any way you want i.e. an information booklet, a poster, a powerpoint.



## Let's get creative:

Let's get our inventors hats on today to make our own DIY bowls. You will need the following items:

- Glue (PVA)
- A blaoon
- Water
- Paper (this can be any type of paper (coloured, newspaper, tissue paper, confetti)
- 1. Blow up the balloon to your desired size
- 2. Mix glue and water in a bowl
- 3. Apply the glue and water mixture to your balloon
- 4. Apply first layer of paper and continue till u have four layers.
- 5. Leave the balloon for 24hours to dry
- 6. Release the air by popping the balloon.
- 7. Trim your bowl
- 8. Paint your bowl





WednesdayRemember that it is Wellbeing Wednesday – check the school's website for this<br/>week's updates! Look under News & Dates / Coronavirus Updates and you will find<br/>loads of resources and activities.Maths:

 Week 8 lesson 3- Subtract Fractions

 <u>Video link:</u>

 https://vimeo.com/427993504

 <u>Worksheet:</u>

 https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-3 

 Subtract-fractions-2020.pdf

 Watch the video clip for Week 8 lesson 3, then please either print and complete the worksheet or write in your exercise book.

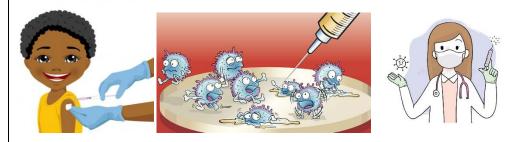
#### Answers:

https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-3-Answers-Subtract-fractions-2020.pdf

## English:



It's well-being Wednesday. Today we would like you to take some time to thank the great inventors of our world and their inventions. Vaccinations, cures and medicine were created by people. At the moment, there are many scientists researching vaccines and developing them to try to find a cure for the Covid-19 virus. It would be lovely if you could write a poem or letter to show them how much we appreciate their hard work and how grateful we are to them.



## Let's get creative:

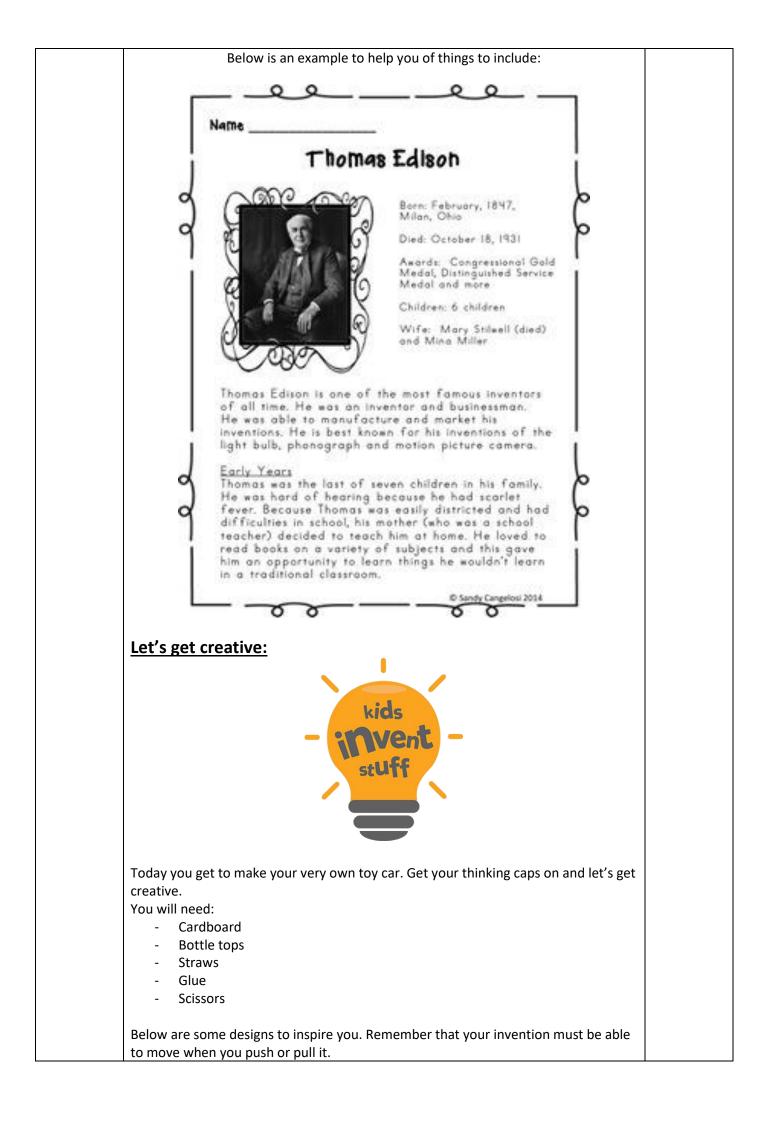




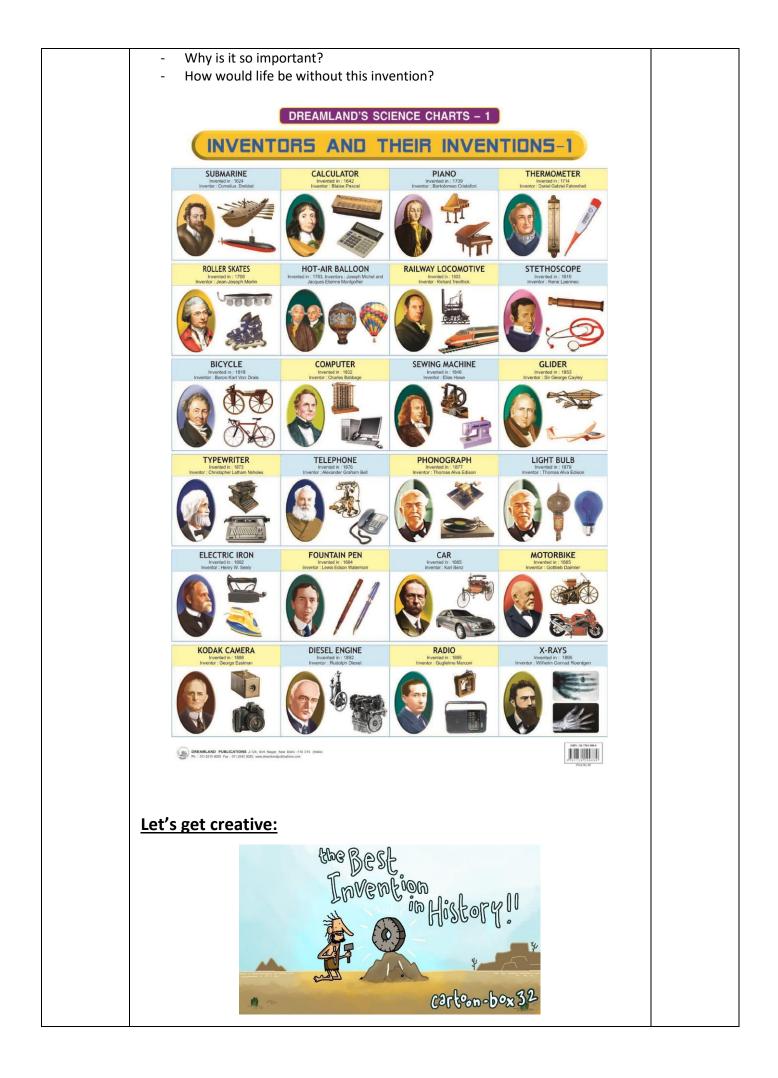
It's time to put those loo roles to good use today! Today we'd like you to make some wall art using loo rolls. Below are some images to inspire you. You will need:

- Toilet rolls
- Scissor
- Glue
- Paint

Thursday	Maths:
	Week 8 lesson 4- Problem solving with fractions <u>Video link:</u>
	https://vimeo.com/427993581 Worksheet:
	https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-4- Problem-solving-with-addition-and-subtraction-of-fractions.pdf
	Watch the video clip for Week 8 lesson 4, then please either print and complete the worksheet or write in your exercise book.
	Answers: https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-4- Answers-Problem-solving-with-addition-and-subtraction-of-fractions.pdf
	<b>English:</b> Today we would like you to research inventors and their inventions. After you have done some research, pick your favourite inventor to write a biography about. A biography is when you write about a person's life.
	Writing Prompt: Innovative Inventors
	Write an informative paragraph about the inventor you
	researched. Tell readers about the invention your inventor is
	most known for creating. Explain how this invention solved a
	problem for people. How did this invention change people's lives?



	Challenge: Can you use a balloon to make your toy car move?
Friday	Maths:         Week 8 lesson 5- Pick a skill from this week that you have found challenging to
	practise and do some further work on.
	Also spend time completing some addition and subtraction calculations. To make your calculations, simply roll and dice to make a number.
	English:
	THE GREATEST INVENTION
	OF ALL TIME endlessorigami.blogspot.com
	In your opinion,
	what is the greatest
	invention ever?
	Today we would like you to write about what you think the greatest invention is and to explain why. Below is a poster of some inventions to help you but you can pick something different to write about. Think about the following questions to help you with your writing:
	<ul> <li>Who is the inventor?</li> <li>When was it invented?</li> </ul>
	- How is the invention used?





#### **Additional Activities**

Science	Science: Inventions
	A mixture of websites to explore and learn from.
	What did the Victorians ever do for us
	https://victorianchildren.org/victorian-inventions/
	Women inventors: some great inventions and fascinating stories; you might want to find out more about some of them https://www.amightygirl.com/blog?p=12223
	Some interesting reading with some science activities based on the invention of the penny post- make your own ink, for example!

	Some young inventors! <u>https://www.youtube.com/watch?v=XiuU1ml</u> A website devoted to young inventors and the <u>https://www.littleinventors.org/</u> An amazing 'invention'- a Rube Goldberg mach <u>https://www.youtube.com/watch?v=qybUFnY</u> And some more about Rube Goldberg, with a f <u>https://tinkerlab.com/engineering-kids-rube-g</u>	ir inventions nine. ' <u>7Y8w</u> few ideas for making your own Rube Goldberg machin												
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	Light in Art:         With the invention of neon lighting in 1910 came a new wave of artistry that began to appear in cities across the world.         Image: Construction of the proper interval of the proper interva	Say Cheese!Photography revolutionised the world of art! Portraits and landscapes could be captured in a moment. As an art form it has been used to capture unusual shapes and shadows in our environment and tell visual stories. Camera phones can be used to explore this wonderful artistic invention. Can you use a camera and take a photograph of something that inspires your arty skills? Here are some ideas! https://clickitupanotch.com/photography-for- kids/Micro photographs! Take a picture of a toy, plant or textured surface! What patterns, shapes and shadows can you find?Difference Difference Story using snapshots or video!Use toys, objects and your imagination to tell a story using snapshots or video!Difference Difference Difference Difference Difference DifferenceBecome an animator! https://www.tate.org.uk/kids/make/art- technology/be-animator												

#### Stained Glass Candle Holder!

Stained glass was invented in 675 AD! Recycle old plastic bottles to make beautiful candle holders or sculptures using felt tips!



https://www.instructa bles.com/id/Plastic-Bottle-quotStained-Glassquot-Candlehol/

#### Become an Inspiring Inventor: Design and Draw your own Invention!

#### Lonnie G Johnson

Lonnie G Johnson is an African American engineer who worked for NASA's Jet Propulsion Laboratory. During his time at NASA, Johnson worked on the Galileo mission to Jupiter, the Mars Observer project, and the Cassini mission to Saturn. He earned multiple awards from NASA for his spacecraft control systems. But Johnson is possibly best known for inventing the Super Soaker water gun!

How about inventing a new toy? Draw a design for a toy that you would like to play with. It might be something that hasn't even been invented yet! It might be something that floats, spins, rolls or flies! Follow this link for some ideas for what you could make!

https://www.youtube.com/watch?v=WDnCj1s3Qjo



#### Dr. Patricia Bath.



https://www.youtube.com/watch?v=gcE\_QMTB NW4

Bath's laser tool has helped restore or improve vision in patients worldwide. In 1981, Bath invented the surgical tool that made her famous: the Laserphaco Probe, which she continued to perfect and later patented in 1988. The tool was used during eye surgery to correct cataracts, an eye condition that clouds vision and can lead to blindness. Cataracts usually affect older people. Bath's laser tool was more precise, less invasive, and less risky than previous devices, and has been used around the world. Draw and design your own device that could be used to help



## 'Concerto for Turntables' by Gabriel Prokofiev

https://www.bbc.co.uk/programmes/articles/1SxcJK8NnWbKkVKZQCt95m5/concerto-for-turntables-andorchestra-5th-movement-by-gabriel-prokofiev -

The invention of the turntable or record player revolutionised how people could get access to music. People could buy a record and listen to their favourite music in their homes. Listen to this piece of music featuring turntables.

#### 'Theremin and instrument you play by not touching it'

https://www.youtube.com/watch?v=LYSGTkNtazo

In 1919 the Russian Leon Theremin invented this instrument by accident when he was working on a gas meter to measure the density of gas. He found that when his hand was near it he heard a high squeal and when it was further away he heard a lower squeal. Now it is played by musicians as an instrument.

**<u>'One moment, one people' - https://www.singup.org/singupathome/one-moment-one-people</u></u> An inspiring song to learn about working together and making positive connections with each other.** 



## **Duke Ellington**



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**Improvisation** is a way to **invent** your own music. Improvisation is where a musician takes a tune or piece of music and makes something up on the spot of his own, using that music as inspiration. This is often done in a style of music known as **'Jazz'** 

## Duke Ellington was the King of Jazz and Improvisation.

His real name was Edward Kennedy Ellington. He was given the name 'Duke' because of his good manners when he was a little boy. He started playing the piano when he was 7 years old. He was born in Washington DC in the USA.

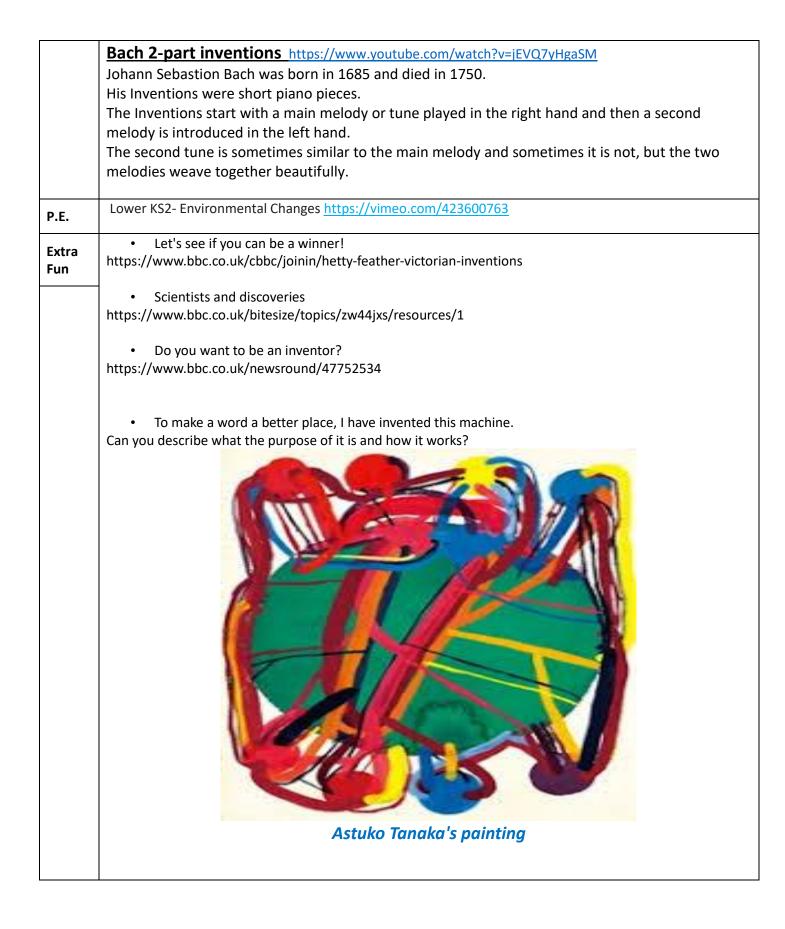
Duke's grandparents had been slaves and like most African Americans at the time, Duke was a victim of racial prejudice at times.

Duke became a well-known jazz pianist and composer. Jazz is a type of American music that has roots in blues and ragtime. It has lots of improvisation and solos from different instruments.

Duke's jazz orchestra (or Big Band) 'The Washingtonians', played at the famous Cotton Club in Harlem. At the time, African Americans were allowed to perform at the club but not allowed in as customers. They even had to enter via a back door.

Duke and his big band wrote some of the world's most famous jazz pieces, including **'It don't mean a thing'.** Listen to this clip with all the fantastic improvisations from the band members. <u>https://www.youtube.com/watch?v=qDQpZT3GhDg</u>. What other music of Duke's can you find?

In an era of racism, Duke was proud of who he was, and this is reflected in compositions, such as 'Black and Tan Fantasy', 'Black, Brown and Beige' and 'Creole Rhapsody'. He said: "My men and my race are the inspiration of my work. I try to catch the character and mood and feeling of my people."



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