

Gamut April 2015

WSKG-HD Primetime Expanded Listings

1 Wednesday

8pm Nova

Alien Planets Revealed

It's a golden age for planet hunters: NASA's Kepler mission has identified more than 3,500 potential planets orbiting stars beyond our sun. Some of them, like a planet called Kepler-22b, might even be able to harbor life. How did we come upon this distant planet?

Combining animation with input from expert astrophysicists and astrobiologists, "Alien Planets Revealed" takes viewers on a journey along with the Kepler telescope. How does the telescope look for planets? How many of these planets are like our Earth? Will any of these planets be suitable for life as we know it? Bringing the creative power of veteran animators together with the latest discoveries in planet-hunting, this film shows the successes of the Kepler mission, taking us to planets beyond our solar system and providing a glimpse of creatures we might one day encounter. **TVG : 1 YEAR**

9pm Cancer: The Emperor of All Maladies

Finding The Achilles Heel

This episode starts at a moment of optimism: Scientists believe they have cracked the mystery of the malignant cell, and the first targeted therapies have been developed. But very quickly cancer reveals new layers of complexity and a formidable array of defenses. Many call for a new focus on prevention and early detection as the most promising fronts in the war on cancer. By the second decade of the 2000s, the bewildering complexity of the cancer cell yields to a more ordered picture, revealing new vulnerabilities and avenues of attack. Perhaps most exciting is the prospect of harnessing the human immune system to defeat cancer. A 60-year-old NASCAR mechanic with melanoma and a six-year-old with leukemia are pioneers in new immunotherapy treatments, which the documentary follows as their stories unfold. **TV14 DVI : 1 YEAR**

11pm Cancer: The Emperor of All Maladies - A Conversation

Cancer: The Emperor of All Maladies - A Conversation: Katie Couric of Yahoo! News and co-founder of "Stand Up To Cancer" moderates a conversation with Ken Burns; Sharon Percy Rockefeller, President and CEO of WETA and a cancer survivor; and Dr. Siddhartha Mukherjee, Pulitzer Prize-winning author of the book upon which the film CANCER: THE EMPEROR OF ALL MALADIES is based.

11:30pm Charlie Rose TVRE : 1 YEAR

12:30am Tavis Smiley

Prof. Philip Klinkner (Civil Rights 50 years after Selma March)/T. Geronimo Johnson (author, Welcome to Braggsville) **TVRE : 1 YEAR**

2 Thursday

8pm Expressions

Elmar Oliveira & John Covelli

9pm Call The Midwife

Nurse Barbara Gilbert arrives at Nonnatus and, after a disastrous start, earns the respect of her colleagues by helping a new mother overcome difficulties. Trixie faces one of the most emotionally draining cases of her career, and the Turners broker a domestic deal that breaks the mold for the 1950s and 60s. Sister Evangelina finally agrees to undergo tests for her abdominal pain. **TV14 : 1 YEAR**

10pm Jewel in the Crown

In August 1947 Guy Perron, now a Cambridge history lecturer, returns to India on the eve of Independence to observe the last days of British rule. He discovers that Merrick has married Susan, but has subsequently been killed, ostensibly in a riding accident. No-one is anxious to discuss the details. Sarah is distant when they meet again - she is involved, with Ahmed Kasim, in managing the Nawab's household. The Nawab himself faces a dilemma - whether to opt for political independence for his small state, or to integrate with the forthcoming Indian Union Territory. In the end, he chooses integration. Perron questions Nigel Rowan about Merrick's death, and learns the non-unexpected truth - Merrick was murdered. The facts are recorded, but a murdered Englishman is an undesirable fact at a time when India's independence is threatening to release a Pandora's Box of troubles. **TV14**

11pm Charlie Rose **TVRE : 1 YEAR**

12am BBC World News **TVRE**

12:30am Tavis Smiley

Prof. Robert English (Director, USC School of International Relations and Anton Yelchin (actor, 5 to 7) **TVRE : 1 YEAR**

3 Friday

8pm Washington Week with Gwen Ifill **TVRE : 1 YEAR**

8:30pm Charlie Rose: The Week **TVRE : 1 YEAR**

9pm Live from Lincoln Center

Billy Porter: Broadway & Soul

Tony and Grammy Award-winner Billy Porter, star of the Broadway hit *Kinky Boots*, performs songs from his latest album, *Billy's Back on Broadway*, and other favorites. **TVPG DVI**

10pm Great Performances

Annie Lennox: Nostalgia Live In Concert

Throughout her four-decade career, music superstar Annie Lennox has defied categorization, diving into blues, soul, folk and pop to create songs that captivate and transcend boundaries. In her latest album, *Nostalgia*, Lennox reveals yet another dimension to her formidable talent. Although jazz is not the genre for which she is best known, she

could no longer resist the magnetic pull of some of the most memorable melodies and lyrics from the American Songbook - songs like "Summertime," "Georgia on My Mind," "You Belong to Me," "I Cover the Waterfront" and "God Bless the Child." Lennox's sublime interpretations bring a hypnotic intimacy to these timeless classics. **TVPG : 1 YEAR**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley

Scott Glenn (actor, *The Barber*)/Cassandra Wilson (singer, CD "Coming Forth By Day") **TVRE : 1 YEAR**

4 Saturday

8pm Midsomer Murders

The House in the Woods, Part 1

Local PC Ben Jones (Jason Hughes) steps into CID and DS Scott's shoes to help Barnaby investigate the garrotting of two house hunters outside a deserted - supposedly haunted - house. The owner is anxious to sell, but the estate agent, Harriet Davis (Rebecca Egan), who is representing Jack Magwood (George Baker - *I Claudius*), seems reluctant to let anyone see the property. This episode is the first appearance of DC Ben Jones (Jason Hughes). **TVPG : 1 YEAR**

9pm Doc Martin

On The Edge - Part 2

Having failed to restart his relationship with Louisa Glasson, Martin is forced out of the picture with the arrival of her dad, Terry Glasson. Terry has hatched a scheme with a colleague, Jonathan Crozier, to smuggle in some explosives which they want to use to help them in a robbery. Terry decides to back out of the smuggling, and things get even worse for Doc Martin. As he finds himself held hostage, along with Louisa, by a paranoid Jonathan, as he attempts to force Terry to carry out their plan. **TVPG : RE-RECORD**

10pm Keeping Up Appearances - The Memoirs of Hyacinth Bucket

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11pm Austin City Limits

Ed Sheeran/Valerie June

Singer/songwriters Ed Sheeran and Valerie June perform. Sheeran lights up hits "Sing!" and "A-Team," while June burns through material from her acclaimed LP *Pushin' Against a Stone*. **TVPG : 1 YEAR**

12am Nature

The Mystery of Eels

Though much of the natural world is discovered and understood, a few great mysteries remain. Consider the eel -- snakelike and slimy, with a row of jagged teeth. Yet aside from these fearsome qualities, we know little about its life. Where it goes, what it does, and how it dies, nobody knows. Hailed by poets as the "siren of the North Sea" and "love's arrow on

Earth," this shadowy creature has fascinated researchers for centuries. And now James Prosek, artist, writer, and eminent naturalist, takes on the mystery of the eel himself, shedding light on the animal and the strange behavior it inspires in those who seek to know it. **TVPG DVI : 1 YEAR**

5 Sunday

8pm Call The Midwife

Two things become clear: new nurse Phyllis Crane is not going to fit in easily and Sister Julienne and a prospective benefactor knew each other many years ago. Meanwhile, everyone involved in a difficult birth is overwhelmed by the outcome, Patsy is poised to take over as scout leader and Tom dampens Trixie's plans for an extravagant engagement party. **TV14 : 1 YEAR**

9:05pm Masterpiece Classic

Mr. Selfridge, Season 3 - Episode 2

The third season of the popular series, which stars Jeremy Piven as the flamboyant American entrepreneur who founded the famous Selfridge's department store, picks up the story in 1919. The acclaimed cast includes Aisling Loftus, Katherine Kelly, Gregory Fitoussi, Amanda Abbington and Tom Goodman-Hill. Harry attends a fateful auction. Henri has a flashback. Edwards' new book instigates a crisis for Kitty. **TVPG : 1 YEAR**

10pm Wolf Hall On Masterpiece

Episode One

Having failed to secure the annulment of the King Henry's marriage to Katherine of Aragon, Cardinal Wolsey is stripped of his powers. His hopes of returning to the king's favor lie with the ever-loyal Thomas Cromwell. **TVPG : 1 YEAR**

11:10pm Expressions

Elmar Oliveira & John Covelli

12am Call The Midwife

Two things become clear: new nurse Phyllis Crane is not going to fit in easily and Sister Julienne and a prospective benefactor knew each other many years ago. Meanwhile, everyone involved in a difficult birth is overwhelmed by the outcome, Patsy is poised to take over as scout leader and Tom dampens Trixie's plans for an extravagant engagement party. **TV14 : 1 YEAR**

6 Monday

8pm Antiques Roadshow

Birmingham, Hour Two

ANTIQUES ROADSHOW is in Birmingham, where host Mark L. Walberg heads to the historic site of Sloss Furnaces with appraiser Stuart Whitehurst to learn about iron antiques and the history of the iron and steel industry. Highlights include 1968 letters from a young Bill Clinton that include his candid opinions on politics and war; a Lalique hood ornament in

an uncommon amethyst color; and a 1952 John Falter illustration valued at \$200,000 to \$250,000 in today's hot illustration art market. **TVG : 1 YEAR**

9pm Antiques Roadshow

Billings, Mt - Hour Three

Host Mark L. Walberg meets appraiser Bruce Shackelford at Billing's Yellowstone Art Museum to look at its impressive collection of paintings by Joseph Henry Sharp - famous for his realistic depictions of American Indians. Highlights include a beautifully preserved 1843 artillery sword and belt; a circa 1925 sequined flapper dress and gold lame coat; and a circa 1925 heirloom collection of ruby, diamond and jade rings, valued at \$60,000. **TVG : 1 YEAR**

10pm Rx: The Quiet Revolution

Filmmaker David Grubin, the son of a general practitioner, takes his camera across the country to uncover a quiet revolution happening in medicine. From Maine to Mississippi, Alaska to California, he visits physicians, nurses and other healthcare professionals who are placing the patient at the center of their practice - transforming the way medical care is delivered while lowering costs. The film shows how a patient-centered philosophy can improve health outcomes and enrich the lives of patients. **TVPG DVI**

11:30pm Charlie Rose TVRE : 1 YEAR

12:30am Tavis Smiley

Prof. Darnell Hunt (Director, Ralph J. Bunche Center for African-American Studies at UCLA; professor of Sociology)/Blythe Danner (actress, I'll See You in My Dreams & spokesperson for Oral Cancer Foundation) **TVRE : 1 YEAR**

7 Tuesday

8pm Twice Born - Stories from the Special Delivery Unit

Doctors remove the remainder of newborn Lilly's tumor, while Tina and Brion receive devastating news about their unborn twins. As Shelly and the baby undergo a procedure to repair the fetus's spine, get a close-up look at this surgery on a baby in the womb - the first time ever in a major television broadcast. **TV14 : 1 YEAR**

9pm Inside The Court of Henry VIII

Part Renaissance prince, part medieval tyrant, Henry VIII is the most famous of English kings. Venture beyond the facade of his glamorous court to understand the danger and intrigue that routinely cost courtiers their heads. **TVPG : 1 YEAR**

10pm Frontline

The Fight for Yemen

With Yemen in chaos, a gripping report from the heart of the escalating conflict. The film exposes the violent feuds tearing the country apart, the rival anti-American and Al Qaeda aligned forces fighting for control and the dangerous consequences for the region. **TVRE : 1 YEAR**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley

Dr. Michael Gazzaniga (author, *Tales from Both Sides of the Brain*) /Kenneth Shropshire (author, *Sport Matters*) **TVRE : 1 YEAR**

8 Wednesday

8pm Nature

Animal Homes: The Nest

Bird nests come in all shapes and sizes, crafted from a diversity of materials, including fur, grasses, leaves, mosses, sticks and twigs, bones, wool, mud and spider silk. Quite a few contain man-made materials - twine, bits of wire, even plastic bags. Each is a work of art, built with just a beak! All over the world, birds in the wild arrive at diverse nesting grounds to collect, compete for, reject, steal and begin to build with carefully selected materials, crafting homes for the task of protecting their eggs and raising their young. **TVPG DVI : 1 YEAR**

9pm Nova

Emperor's Ghost Army

In central China, a vast underground mausoleum conceals a life-size terracotta army of cavalry, infantry, horses, chariots, weapons, administrators, acrobats, and musicians, all built to serve China's first emperor, Qin Shi Huang Di, in the afterlife. Lost and forgotten for over 2,200 years, this clay army, 8,000-strong, stands poised to help the First Emperor rule again beyond the grave. Now, a new archaeological campaign is probing the thousands of figures entombed in the mausoleum. With exclusive access to pioneering research, this program reveals how the Emperor directed the manufacture of the tens of thousands of bronze weapons carried by the clay soldiers, as well as lethal crossbows engineered with astonishing precision. NOVA tests the power of these weapons with high-action experiments and reports on revolutionary 3D computer modeling techniques that are revealing new insights into how the clay figures were made. The program reveals the secrets of one of archaeology's greatest discoveries and brings to life the startlingly sophisticated world of Qin's legendary empire. **TVPG : 1 YEAR**

10pm Nazi Mega Weapons

Hitler's Megaships

Hitler sees the battleship as the ultimate status symbol for his new Third Reich - and orders the construction of two vessels that are bigger, more powerful and more heavily armored than anything else at sea ... but the British will stop at nothing until Hitler's new mega weapons are at the bottom of the sea. **TVPG : 1 YEAR**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley

Erin Brockovich (environmental activist and consumer advocate)/Robert Kenner (filmmaker, *Merchants of Doubt*) **TVRE : 1 YEAR**

9 Thursday

8pm Expressions

Tri Cities Opera

9pm Call The Midwife

Two things become clear: new nurse Phyllis Crane is not going to fit in easily and Sister Julianne and a prospective benefactor knew each other many years ago. Meanwhile, everyone involved in a difficult birth is overwhelmed by the outcome, Patsy is poised to take over as scout leader and Tom dampens Trixie's plans for an extravagant engagement party. **TV14 : 1 YEAR**

10pm Jewel in the Crown

A Division of the Spoils

Guy discovers the horrific details of Merrick's death. He travels to Ranpur for the independence celebrations, but the train is besieged and Ahmed Kasim and other Muslims are killed. **TV14**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News

Welcome to America TVRE

12:30am Tavis Smiley

Elliot Ackerman (author, *Green on Blue*)/Hugh Masekela (musician) **TVRE : 1 YEAR**

10 Friday

8pm Washington Week with Gwen Ifill TVRE : 1 YEAR

8:30pm Charlie Rose: The Week TVRE : 1 YEAR

9pm Live from Lincoln Center

Norm Lewis: Who Am I?

Stage and screen star Norm Lewis (*Phantom of the Opera*, "Scandal") presents a show that crosses stylistic boundaries, from opera to cabaret to gospel and everything in between. **TVPG DVI**

10pm International Jazz Day

Many of the world's greatest musicians from jazz and other genres assembled at the United Nations to celebrate the first annual International Jazz Day Concert. Featuring performances by Tony Bennett, Dee Dee Bridgewater, Robert Cray, Sheila E., Herbie Hancock, Hiromi, Chaka Khan, Angelique Kidjo, Lang Lang, Wynton Marsalis, Hugh Masekela, Danilo Perez, Dianne Reeves, Esperanza Spalding, and Stevie Wonder. Introductions by Robert De Niro, Michael Douglas, Morgan Freeman, and Quincy Jones. **TVPG**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley

Civil War Panel: Prof. Daina Ramey Berry (Assoc. prof. of History and African Disponic Studies Univ. Texas-Austin), Prof. Eric Walther (professor of History, Univ. of Houston) & Prof. Allyson Hobbs (Assist. Prof. of American History, Stanford University)**TVRE : 1 YEAR**

11 Saturday

8pm Midsomer Murders

The House in the Woods, Part 2

Local PC Ben Jones (Jason Hughes) steps into CID and DS Scott's shoes to help Barnaby investigate the garrotting of two house hunters outside a deserted - supposedly haunted - house. The owner is anxious to sell, but the estate agent, Harriet Davis (Rebecca Egan), who is representing Jack Magwood (George Baker - I Claudius), seems reluctant to let anyone see the property. This episode is the first appearance of DC Ben Jones (Jason Hughes).**TVPG : 1 YEAR**

9pm Doc Martin

The Apple Doesn't Fall

Portwenn has a new police officer following the departure of PC Mark Mylow after his doomed marriage. His replacement is PC Joseph Penhale, who appears to have an odd affliction which causes him to fall asleep suddenly at strange times. The doctor discovers that he has narcolepsy brought on by a kick to the head from a horse suffered two years earlier. Village plumber Bert Large is having a midlife crisis. His son Al has left the village on his travels round the world and Bert feels left out in the cold. Doc Martin offers no help.**TVPG : RE-RECORD**

10pm Keeping Up Appearances - The Memoirs of Hyacinth Bucket

10:30pm Keeping Up Appearances - The Memoirs of Hyacinth Bucket

Singing for Emmet

11pm Austin City Limits

Juanes/Jesse & Joy

AUSTIN CITY LIMITS presents the best in Latin music with Juanes and Jesse & Joy. Colombian superstar Juanes performs a high-energy set of his best, while Mexico City's sibling duo Jesse & Joy sing a selection of their greatest hits.**TVPG : 1 YEAR**

12am Nature

Animal Homes: The Nest

Bird nests come in all shapes and sizes, crafted from a diversity of materials, including fur, grasses, leaves, mosses, sticks and twigs, bones, wool, mud and spider silk. Quite a few contain man-made materials - twine, bits of wire, even plastic bags. Each is a work of art, built with just a beak! All over the world, birds in the wild arrive at diverse nesting grounds to collect, compete for, reject, steal and begin to build with carefully selected materials, crafting homes for the task of protecting their eggs and raising their young.**TVPG DVI : 1 YEAR**

12 Sunday

8pm Call The Midwife

A mother's life is turned upside down when her husband is arrested for gross indecency with a man. After Nurse Crane meets a clearly malnourished pregnant woman, a home visit reveals that she has given a false address and seems to have disappeared. Trixie is delighted when Tom asks her to oversee an official church duty. At Nonnatus House, Sister Monica Joan deliberately undermines Fred's attempts to bring a rat infestation under control. **TV14 : 1 YEAR**

9:05pm Masterpiece Classic

Mr. Selfridge, Season 3 - Episode 3

The third season of the popular series, which stars Jeremy Piven as the flamboyant American entrepreneur who founded the famous Selfridge's department store, picks up the story in 1919. The acclaimed cast includes Aisling Loftus, Katherine Kelly, Gregory Fitoussi, Amanda Abbington and Tom Goodman-Hill. Surprising accomplices turn up in the search for Kitty's assailants. Agnes and Henri call it quits, and Harry and Nancy reach an understanding. **TVPG : 1 YEAR**

10pm Wolf Hall On Masterpiece

Episode Two

Cardinal Wolsey has been forced to move to York. Cromwell remains in London, seeking to return the cardinal to the king's favor. As Cromwell's relationship with Henry deepens, there is unexpected news from the north. **TVPG : 1 YEAR**

11:05pm Expressions

Tri Cities Opera

12am Call The Midwife

A mother's life is turned upside down when her husband is arrested for gross indecency with a man. After Nurse Crane meets a clearly malnourished pregnant woman, a home visit reveals that she has given a false address and seems to have disappeared. Trixie is delighted when Tom asks her to oversee an official church duty. At Nonnatus House, Sister Monica Joan deliberately undermines Fred's attempts to bring a rat infestation under control. **TV14 : 1 YEAR**

13 Monday

8pm Antiques Roadshow

Birmingham, Hour Three

ANTIQUES ROADSHOW rolls into Birmingham, where host Mark L. Walberg and appraiser John Buxton visit the Birmingham Museum of Art to look at a rare African wood carving from the late 19th century. Highlights include an autographed first edition copy of Harper Lee's *To Kill a Mockingbird*; a Titanic photograph and book tracing back to the owner's survivor relatives; and a Rolex military watch with ties to *The Great Escape* book and film that is appraised for \$40,000 to \$50,000. **TVG : 1 YEAR**

9pm Antiques Roadshow

Biloxi, Ms - Hour One

In Biloxi, Mississippi, host Mark L. Walberg joins appraiser David Rago for a look at the eccentric pottery of George Ohr, overlooked in his lifetime during the mid-19th and early 20th centuries, but now the celebrated centerpiece of Biloxi's Ohr-O'Keefe Museum of Art. Highlights include a circa 1950 Walter Anderson linocut; an 1899 "Buffalo Bill" poster; and a 1928 Art Deco, bronze sculpture of dancers from the Russian Ballet, created by Romanian artist Demeter Chiparus and valued at \$100,000 to \$150,000. **TVG : 1 YEAR**

10pm Independent Lens

The Homestretch

Follow three smart and ambitious Chicago teens who brave frigid winters, high school pressures and homelessness as they fight to stay in school, graduate and build a future. By Anne de Mare and Kirsten Kelly. **TVPG DVI : 1 YEAR**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley

Bill Withers (singer/songwriter) **TVRE : 1 YEAR**

14 Tuesday

8pm Twice Born - Stories from the Special Delivery Unit

See Lilly's plastic surgery procedure and Bobby and Shelly's delivery of their baby girl, Luelle. Geneva and Reggie visit CHOP to seek help for their unborn child, who has developed a lower urinary tract obstruction. **TV14 : 1 YEAR**

9pm Escape from a Nazi Death Camp

October 14th 2013 was the 70th anniversary of an event that shook the Nazi party to its core. In east Poland, at the remote Nazi death camp of Sobibor, 300 Jewish prisoners staged a bloody break out. To mark the anniversary, this film travels back Sobibor with the last remaining survivors to reveal their extraordinary story of courage, desperation and determination. The film uses brutally honest drama-reconstruction and first hand testimony to reveal the incredible escape story. The multi-layered plot unfolds like a Hollywood blockbuster -- from the last-minute change to the escape plan forced by an unexpected arrival of a train load of SS soldiers, to the systematic luring of individual camp guards to separate locations and different, highly creative deaths, yet every terrible and inspiring moment of this story is absolutely true. **TV14 : 1 YEAR**

10pm Frontline

Memory of the Camps

A landmark historical film discovered by FRONTLINE in a museum vault decades ago has been called "Hitchcock's lost Holocaust film." First broadcast by the series in 1985, the documentary shows the first horrifying footage shot as Allied troops entered the Nazi death camps. Drawing on initial editing done by famed director Alfred Hitchcock before the film was shelved 70 years ago, FRONTLINE reconstituted the forgotten reels and script and showed them in public for the first time 30 years ago. **TVM : 1 YEAR**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley TVRE : 1 YEAR

15 Wednesday

8pm Nature

Nature's Guide to Animal Homes: Location, Location, Location

Finding a good base of operations is key to successfully raising a family. One must find the right stream or tree, the right building materials, neighbors and sometimes tenants. In the wild, every home is a unique DIY project, every head of household a designer and engineer. Cameras chart the building plans and progress of beavers, tortoises, hummingbirds and woodrats, examining layouts and cross sections, evaluating the technical specs of their structures, documenting their problem-solving skills. Animal architecture provides insights into animal consciousness, creativity and innovation. **TVG DVI : 1 YEAR**

9pm Nova

The Great Math Mystery

NOVA leads viewers on a mathematical mystery tour—a provocative exploration of math's astonishing power across the centuries. We discover math's signature in the swirl of a nautilus shell, the whirlpool of a galaxy, and the spiral in the center of a sunflower. Math was essential to everything from the first wireless radio transmissions to the prediction and discovery of the Higgs boson, and the successful landing of rovers on Mars. But where does math get its power? Astrophysicist and writer Mario Livio, along with a colorful cast of mathematicians, physicists, and engineers, follow math from Pythagoras to Einstein and beyond, all leading to the ultimate riddle: Is math an invention or a discovery? Humankind's clever trick, or the language of the universe? The Great Math Mystery is a show for everyone; whether we think we're good with numbers or not, we all use math in our daily lives. The Great Math Mystery sheds fascinating light on how math works in our brains and ponders the ultimate mystery of why it works so well when decoding the universe. **TVPG : 1 YEAR**

10pm Kamikaze

As America threatened to invade Japan in 1944, the Japanese turned to desperate tactics - kamikaze suicide bombers. Now, experts are uncovering the clues to the terrifying weapons Japan sent into war: killer planes, rocket bombs and super torpedoes, all guided by human pilots. Exploring Japan's coast, the experts uncover caves, overgrown bunkers and top-secret bases that hide the secrets to how kamikaze weapons were built and launched. **TVPG : 1 YEAR**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley TVRE : 1 YEAR

16 Thursday

8pm Expressions

Michael Davidman

9pm Call The Midwife

A mother's life is turned upside down when her husband is arrested for gross indecency with a man. After Nurse Crane meets a clearly malnourished pregnant woman, a home visit reveals that she has given a false address and seems to have disappeared. Trixie is delighted when Tom asks her to oversee an official church duty. At Nonnatus House, Sister Monica Joan deliberately undermines Fred's attempts to bring a rat infestation under control. **TV14 : 1 YEAR**

10pm Jewel in the Crown

In 1942, the Japanese, having conquered Burma, are threatening India. At Mayapore, Hari Kumar comes under suspicion of subversion by Merrick, the District Superintendent of Police. **TV14**

12am Charlie Rose TVRE : 1 YEAR

17 Friday

8pm Washington Week with Gwen Ifill TVRE : 1 YEAR

8:30pm Charlie Rose: The Week TVRE : 1 YEAR

9pm American Masters

Jascha Heifetz: God's Fiddler

Discover the mysterious violin virtuoso through Itzhak Perlman, students, archival performances and home movies. His story embodies the paradox of artistic genius: how a mortal man lives with immortal gifts, honored at a lifelong price. **TVPG : 1 YEAR**

10pm Voces On PBS

Children of Giant

In 1955, Elizabeth Taylor, Rock Hudson, James Dean and a massive crew descended on the Texas town of Marfa to begin production on Giant. Now, 60 years later, "Children of Giant" explores the film's still timely examination of racial prejudice. **TVPG**

11:30pm Charlie Rose TVRE : 1 YEAR

12:30am Tavis Smiley TVRE : 1 YEAR

18 Saturday

8pm Midsomer Murders

Dead Letters, Part 1

The mother of a deceased one-time carnival queen is found dead in a stream. Once again, Barnaby must dig up the past to solve the case. Barnaby is convinced he has seen two people from an earlier mystery (The Killings at Badger's Drift- the very first episode of Series I) around the village. He is puzzled because the people in question were brutally murdered. Is Barnaby seeing ghosts? Guest stars Simon Callow (Four Weddings And A Funeral) and Carolina Goddall (Schindler's List; Mrs. Biggs). **TVPG : 1 YEAR**

9pm Doc Martin

Movement

In a life-changing decision, Bert Large abandons his plumbing business to open his own restaurant. The opening of Large's restaurant is far from a success, when Doc Martin, who has a phobia about blood, finds a spot of blood on his plate. To make matters worse for Bert, the following day, the doctor's office is inundated with patients with symptoms of food poisoning, and all claiming to have eaten at his restaurant. **TVPG : RE-RECORD**

10pm Keeping Up Appearances - The Memoirs of Hyacinth Bucket

The Toy Store

10:30pm Keeping Up Appearances - The Memoirs of Hyacinth Bucket

The Three Piece Suite

11pm Austin City Limits

The Shins/Dr. Dog

ACL presents alternative rock with the Shins and Dr. Dog. The Shins play songs from their latest record Port of Morrow, while Dr. Dog highlights Be the Void. **TVPG : 1 YEAR**

12am Nature

Nature's Guide to Animal Homes: Location, Location, Location

Finding a good base of operations is key to successfully raising a family. One must find the right stream or tree, the right building materials, neighbors and sometimes tenants. In the wild, every home is a unique DIY project, every head of household a designer and engineer. Cameras chart the building plans and progress of beavers, tortoises, hummingbirds and woodrats, examining layouts and cross sections, evaluating the technical specs of their structures, documenting their problem-solving skills. Animal architecture provides insights into animal consciousness, creativity and innovation. **TVG DVI : 1 YEAR**

19 Sunday

8pm Call The Midwife

Sister Winifred's eyes are opened to Poplar's seedy underworld when she cares for an expectant prostitute. Meanwhile, Barbara struggles to understand why an expectant father would put undue pressure on his wife to bear a son, and Sister Monica Joan feels redundant as the busy midwives go about their work. The bishop's meeting with Tom leads to an argument between Trixie and Tom. **TV14 : 1 YEAR**

9:05pm Masterpiece Classic

Mr. Selfridge, Season 3 - Episode 4

The third season of the popular series, which stars Jeremy Piven as the flamboyant American entrepreneur who founded the famous Selfridge's department store, picks up the story in 1919. The acclaimed cast includes Aisling Loftus, Katherine Kelly, Gregory Fitoussi, Amanda Abbington and Tom Goodman-Hill. When Locksley makes a surprise move, Harry ups the stakes. Princess Marie makes her own move. Victor and Violette are caught off guard. **TVPG : 1 YEAR**

10pm Wolf Hall On Masterpiece

Episode Three

With the cardinal dead, it falls to Cromwell to orchestrate a marriage between the king and Anne Boleyn. The king rewards Cromwell for his loyalty, but he is being closely watched by his enemies. **TVPG : 1 YEAR**

11:05pm Expressions

Michael Davidman

12am Call The Midwife

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20 Monday

8pm Antiques Roadshow

Santa Clara, Hour One

ANTIQUES ROADSHOW is in Santa Clara, where host Mark L. Walberg and appraiser Stephen Fletcher travel to the Japanese American Museum of San Jose to learn about arts and crafts made by Japanese and Japanese Americans interned in camps during World War II. Highlights include an Italian hotel proprietor's autograph book that includes signatures from John Steinbeck, Leo Tolstoy, Mark Twain; a Margaret Keane "Big Eye" painting; and a collection of 1936-1939 Edward Weston photographs, previously owned by Academy Award-winning special effects artist Warren Newcombe, and now valued at \$180,000 to \$260, 000. **TVG : 1 YEAR**

9pm Antiques Roadshow

Biloxi, Ms - Hour Two

With NASA's John C. Stennis Space Center near Biloxi, Mississippi as a backdrop, host Mark L. Walberg joins appraiser Noel Barrett to explore the world of vintage space toys. Highlights include a 1943 National League signed baseball; a circa 1770 sword used in the Revolutionary War; and a beautifully preserved 1811 silk-on-silk embroidery, made in Philadelphia and taken from an English print valued at \$40,000 to \$50,000. **TVG : 1 YEAR**

10pm Independent Lens

The Great Invisible

Explore the stories behind the disastrous Deepwater Horizon oil spill, from fallout to aftermath, and its continuing effects on a region dependent on nature. The film includes unprecedented access to footage from the oil rig before the spill. By Margaret Brown. **TVPG**

DVI : 1 YEAR

11:30pm Charlie Rose TVRE : 1 YEAR

12:30am Tavis Smiley TVRE : 1 YEAR

21 Tuesday

8pm The National Mall - America's Front Yard

The United States National Mall, set in the heart of Washington, DC, is a place unlike any other on earth, and its history is equally fascinating. This special reveals the surprising and inspiring story of the Mall's evolution. **TVG : 1 YEAR**

9pm My Lai: American Experience

What drove a company of American soldiers --ordinary young men from around the country deployed to liberate a small foreign nation from an oppressive neighbor -- to dehumanize and murder more than 300 unarmed civilians? Were they "just following orders" as some later declared? Or, as others argued, did they break under the pressure of a misguided military strategy that measured victory by body count? Today, as the United States once again finds itself questioning the morality of actions taken in the name of war, Academy Award-nominated filmmaker Barak Goodman (*The Lobotomist*, *Scottsboro: An American Tragedy*) focuses his lens on the 1968 My Lai Massacre, its subsequent cover-up, and the heroic efforts of the soldiers who broke rank to halt the atrocities. This film draws upon the eyewitness accounts of Vietnamese survivors and the men of the Charlie Company 11th Infantry Brigade and recently discovered audio recordings. **TV14 DVI : 1 YEAR**

10pm Frontline

American Terrorist

FRONTLINE investigates American-born terrorist David Coleman Headley, who helped plan the deadly 2008 siege on Mumbai. In collaboration with ProPublica, the film reveals how secret electronic surveillance missed catching the Mumbai plotters, and how Headley planned another Charlie Hebdo-like assault against a Danish newspaper. **TVRE : 1 YEAR**

11:30pm Charlie Rose TVRE : 1 YEAR

12:30am Tavis Smiley TVRE : 1 YEAR

22 Wednesday

8pm Nature

Animal Homes: Animal Cities

For some animals, living in the midst of huge colonies of their own kind is the most secure and rewarding housing arrangement. Icelandic puffins form nesting colonies of more than a million, providing shared information about food sources and reducing the odds of attacks on individual birds. But colonies are useful for predators, too. Social spiders in Ecuador work together to capture prey 20 times the size an individual might subdue on its own. For others, communal living provides multi-generational care-giving options or the opportunity to build enormous cities like the acre-wide multi-million-citizen colonies built by leaf cutter ants in Costa Rica, or Australia's Great Barrier Reef, built entirely by tiny corals. **TVPG DVI : 1 YEAR**

9pm Nova

Invisible Universe Revealed

Twenty-five years ago, NASA launched one of the most ambitious experiments in the history of astronomy: the Hubble Space Telescope. In honor of Hubble's landmark anniversary, NOVA tells the remarkable story of the telescope that forever changed our understanding of the cosmos and our place in it. From its inception through its early days, when a one-millimeter engineering blunder turned the telescope into an object of ridicule, to the five heroic astronaut missions that returned Hubble to the cutting edge of science, NOVA hears from the scientists and engineers on the front line who tell the amazing Hubble story as never before. This single telescope has helped astronomers pinpoint the age of the universe, revealed the birthplace of stars and planets, advanced our understanding of dark energy and cosmic expansion, and uncovered black holes lurking at the heart of galaxies. For more than a generation, Hubble's stunning images have brought the beauty of the heavens to millions, revealing a cosmos richer and more wondrous than we ever imagined. Join NOVA for the story of this magnificent machine and its astonishing discoveries. **TVG : 1 YEAR**

10pm Nazi Mega Weapons

The Siegfried Line

Five times the length of Hadrian's Wall, Hitler's Siegfried Line was one of the greatest fortifications in the history of warfare. The campaign to breach it took six months and cost the American forces close to 140,000 casualties. This is the story of the men who built it and those who gave their lives fighting to defend - and destroy - it. **TV14 : 1 YEAR**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley TVRE : 1 YEAR

23 Thursday

8pm Expressions

Native Sons Jazz Trio

9pm Call The Midwife

Sister Winifred's eyes are opened to Poplar's seedy underworld when she cares for an expectant prostitute. Meanwhile, Barbara struggles to understand why an expectant father would put undue pressure on his wife to bear a son, and Sister Monica Joan feels redundant as the busy midwives go about their work. The bishop's meeting with Tom leads to an argument between Trixie and Tom. **TV14 : 1 YEAR**

10pm Jewel in the Crown

Daphne and Hari draw closer together. After an assignation with him in the Bibighar Gardens, on a night of rioting and protest, she returns home, claiming she's been raped. On flimsy evidence, Merrick arrests Hari. **TV14**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley TVRE : 1 YEAR

24 Friday

8pm Washington Week with Gwen Ifill TVRE : 1 YEAR

8:30pm Charlie Rose: The Week TVRE : 1 YEAR

9pm America's Ballroom Challenge

In the first hour, the six finalists in the American Smooth and American Rhythm divisions compete as a group, performing the standard dances in their respective categories, with judges scoring their performances. Then each couple performs a "Showdance" solo. **TVG : 1 YEAR**

10pm Voces On PBS

Now En Espanol

Explore the ups and downs of being a Latina actress in Hollywood through the lives of the five dynamic women who dub "Desperate Housewives" into Spanish for American audiences. **TVPG**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley TVRE : 1 YEAR

25 Saturday

8pm Midsomer Murders

Dead Letters, Part 2

The mother of a deceased one-time carnival queen is found dead in a stream. Once again, Barnaby must dig up the past to solve the case. Barnaby is convinced he has seen two people from an earlier mystery (The Killings at Badger's Drift- the very first episode of Series I) around the village. He is puzzled because the people in question were brutally murdered. Is Barnaby seeing ghosts? Guest stars Simon Callow (Four Weddings And A Funeral) and Carolina Goddall (Schindler's List; Mrs. Biggs). **TVPG : 1 YEAR**

9pm Doc Martin

City Slickers

The Oakwoods, a family of city slickers seeking a new life by the sea, set out to disrupt the tranquility of Portwenn. They manage to gatecrash an intimate dinner Louisa has prepared for her and Martin. With their romantic dinner plans ruined, the disgruntled doctor decides to make a hasty exit leaving Louisa to deal with the neighbors from hell. A car vandal is on the loose in Portwenn. Cars belonging to the doctor, his Aunt Joan and Bert Large have all been damaged. The doctor reports the vandalism to PC Penhale, but he seems strangely reluctant to investigate. He has to confess he is suffering from agoraphobia and can't leave the police station. **TVPG : RE-RECORD**

10pm Keeping Up Appearances - The Memoirs of Hyacinth Bucket

A Picnic for Daddy

10:30pm Keeping Up Appearances - The Memoirs of Hyacinth Bucket

How to Enhance Your Husband's Retirement

11pm Austin City Limits

Jack White

White Stripes leader Jack White performs in support of his solo LP Blunderbuss. **TVPG : 1 YEAR**

12am Nature

Animal Homes: Animal Cities

For some animals, living in the midst of huge colonies of their own kind is the most secure and rewarding housing arrangement. Icelandic puffins form nesting colonies of more than a million, providing shared information about food sources and reducing the odds of attacks on individual birds. But colonies are useful for predators, too. Social spiders in Ecuador work together to capture prey 20 times the size an individual might subdue on its own. For others, communal living provides multi-generational care-giving options or the opportunity to build enormous cities like the acre-wide multi-million-citizen colonies built by leaf cutter ants in Costa Rica, or Australia's Great Barrier Reef, built entirely by tiny corals. **TVPG DVI : 1 YEAR**

26 Sunday

8pm Call The Midwife

Sister Julienne questions the nature of absolute faith when she meets a Christian Science couple who refuse medicine for their newborn. Things become more complex when they're accused of harming their child. Meanwhile, Barbara tries to communicate with a pregnant woman who can't speak English. Using the woman's young son to translate presents a new set of problems. Sister Mary Cynthia returns, and Fred meets a woman who catches his eye. **TV14 : 1 YEAR**

9:05pm Masterpiece Classic

Mr. Selfridge, Season 3 - Episode 5

The third season of the popular series, which stars Jeremy Piven as the flamboyant American entrepreneur who founded the famous Selfridge's department store, picks up the story in 1919. The acclaimed cast includes Aisling Loftus, Katherine Kelly, Gregory Fitoussi, Amanda Abbington and Tom Goodman-Hill. Gordon's debut as store deputy skirts scandal. Kitty confronts her attackers. Doris wrestles with a dilemma, then takes a tragic step. **TVPG : 1 YEAR**

10pm Wolf Hall On Masterpiece

Episode Four

Anne gives birth to a baby girl, failing to produce Henry's longed-for male heir. Cromwell demands the nobility and church swear an oath acknowledging Anne as lawful queen, but will Thomas More agree? **TVPG : 1 YEAR**

11:05pm Expressions

Native Sons Jazz Trio

12am Call The Midwife

Sister Julienne questions the nature of absolute faith when she meets a Christian Science

couple who refuse medicine for their newborn. Things become more complex when they're accused of harming their child. Meanwhile, Barbara tries to communicate with a pregnant woman who can't speak English. Using the woman's young son to translate presents a new set of problems. Sister Mary Cynthia returns, and Fred meets a woman who catches his eye. **TV14 : 1 YEAR**

27 Monday

8pm Antiques Roadshow

Santa Clara, Hour Two

ANTIQUES ROADSHOW heads to Santa Clara, where host Mark L. Walberg joins appraiser James Supp at the Pacific Pinball Museum to look at vintage pinball machines. Highlights include a Lambert magician automaton, ca. 1900, that is still in working condition; a Ray Bradbury archive collected by Bradbury's high school English teacher; and Fred Myrick scrimshaw tooth, ca. 1830, that has a long history of family folklore and is appraised for \$150,000 to \$200,000. **TVG : 1 YEAR**

9pm The Draft

Race, class, culture - the draft in the 1960s and 1970s was a lightning rod that lit up every schism in American society. But ending the draft has produced unintended consequences, creating a citizenry completely disconnected from that of the soldiers who experience the burden of endless wars. Featuring interviews with the people who fought the draft, supported it and lived its realities, THE DRAFT tells the story of how a single, controversial issue continues to define a nation. Part of PBS Stories of Service. **TVPG : 1 YEAR**

10pm Dick Cavett's Vietnam

On the 40th anniversary of the official end of the Vietnam War, this program examines the war and its impact on America through the prism of interviews conducted by the iconic host of "The Dick Cavett Show," which featured thoughtful conversation and debate from all sides of the political spectrum. The program combines interviews from Cavett's shows with archival footage, network news broadcasts and audio/visual material from the National Archives to provide insight and perspective on this controversial chapter of American history. **TVPG DVI : 1 YEAR**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley TVRE : 1 YEAR

28 Tuesday

8pm Day The '60s Died

In May 1970, four students were shot dead at Kent State. The mayhem that followed has been called the most divisive moment in American history since the Civil War. From college campuses to the jungles of Cambodia, to the Nixon White House, THE DAY THE 60's DIED returns to that turbulent spring 45 years ago. **TVPG : 1 YEAR**

9pm Last Days In Vietnam: American Experience

During the chaotic final days of the Vietnam War, North Vietnamese forces closed in on Saigon as South Vietnamese resistance crumbled. With the clock ticking and the city under fire, an unlikely group of heroes took matters into their own hands. Directed and produced by Rory Kennedy. **TV14 DVI : 1 YEAR**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley TVRE : 1 YEAR

29 Wednesday

8pm Nature

Mystery Monkeys of Shangri-La

This is the true story of a family of Yunnan snub-nosed monkeys living in the highest forests in the world. Only recently discovered, snub-nosed monkeys are hauntingly beautiful primates, gentler than others of their kind. Elfin-like, they seem both childlike and wise beyond their years. The family is led by a formidable fighter and his fighting force who guard a troop of 8-10 families. The survival of this unique monkey society, formed in response to the hardships of the Himalayas, depends on strong defensive strategies and the cooperation and interdependence of them all. **TVPG DVI : 1 YEAR**

9pm Nova

Manhunt - Boston Bombers

At 2:50pm on April 15, two bomb blasts turned the Boston Marathon finish line from a scene of triumph to tragedy, leaving three dead, hundreds injured and a city gripped by heartbreak and terror. Less than five days later, the key suspects were identified and apprehended with one dead, the other in custody. How did investigators transform the chaos of the bombing into a coherent trail of clues, pointing to the accused killers? NOVA follows the manhunt step by step, examining the role modern technology -- combined with old-fashioned detective work -- played in cracking the case. Given hundreds of hours of surveillance and bystander videos, how did agents spot the bad guys in a sea of spectators? Why couldn't facial recognition software I.D. the criminals? How much could bomb chemistry analysis, cell phone GPS, infrared imagery and crowd sourcing reveal about the secrets behind this horrific crime? With the help of top criminal investigators and anti-terrorism experts, NOVA explores which technological innovations worked -- and which didn't -- in the most notorious case of today, and how the world of crime fighting could be transformed tomorrow. **TVPG : 1 YEAR**

10pm Super Skyscrapers

One World Trade Center

One World Trade Center, the tallest building in the western hemisphere and a famous modern landmark, is engineered to be the safest and strongest skyscraper ever built. This episode follows the final year of exterior construction, culminating with the milestone of

reaching the symbolic height of 1,776 feet. For head of construction Steve Plate, as well as scientists, engineers, ironworkers and curtain wall installers, this is a construction job suffused with the history of the site and a sense of duty to rebuild from the ashes of Ground Zero. **TVPG : 1 YEAR**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley TVRE : 1 YEAR

30 Thursday

8pm Expressions

David Heiss and Warren Jones

9pm Call The Midwife

Sister Julienne questions the nature of absolute faith when she meets a Christian Science couple who refuse medicine for their newborn. Things become more complex when they're accused of harming their child. Meanwhile, Barbara tries to communicate with a pregnant woman who can't speak English. Using the woman's young son to translate presents a new set of problems. Sister Mary Cynthia returns, and Fred meets a woman who catches his eye. **TV14 : 1 YEAR**

10pm Jewel in the Crown

Questions of Loyalty

Daphne dies giving birth to Hari's daughter, and her aunt, Lady Manners, decides to raise the child herself. About to be posted to the war front, Teddie Bingham and his fiancée, Susan Layton, decide to bring forward their marriage. **TV14**

11pm Charlie Rose TVRE : 1 YEAR

12am BBC World News TVRE

12:30am Tavis Smiley TVRE : 1 YEAR