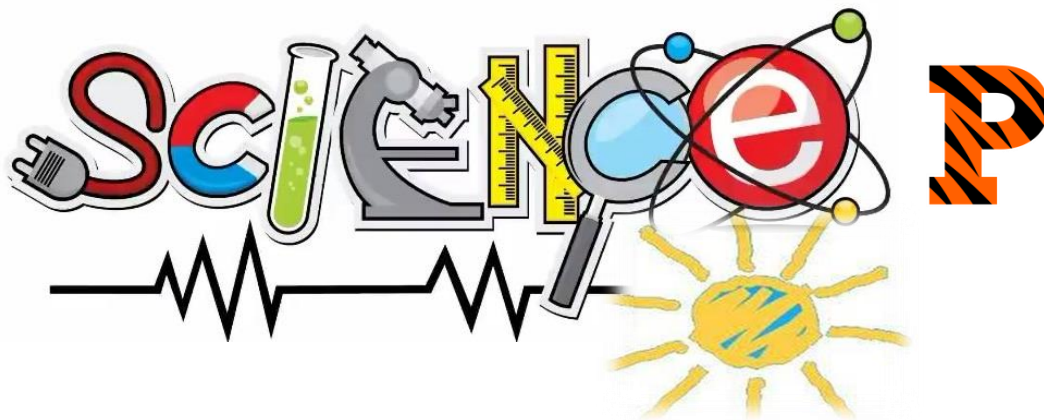




Name \_\_\_\_\_

## 3<sup>rd</sup> Grade Science Remote Learning Packet

### Week 24



Dear Educator,

My signature is proof that I have reviewed my scholar's work and supported him to the best of my ability to complete all assignments.

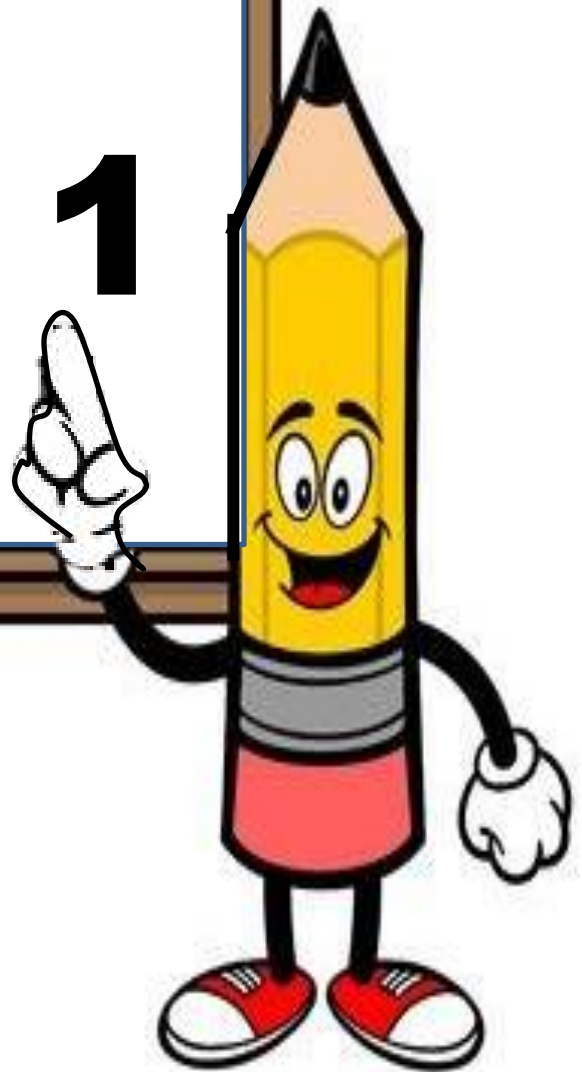
\_\_\_\_\_  
(Parent Signature)

\_\_\_\_\_  
(Date)

Parents please note that all academic packets are also available on our website at [www.brighterchoice.org](http://www.brighterchoice.org) under the heading "Remote Learning." All academic packet assignments are mandatory and must be completed by all scholars.



**Day # 1**



Name: \_\_\_\_\_ Week 24 Day 1 Date: \_\_\_\_\_

BCCS-B

Harvard

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## Black History Science Firsts

### Day 1—Dr. Daniel Hale Williams:

**The Question:** Answer the question using complete sentences.

Who is Dr. Daniel Hale Williams? \_\_\_\_\_

What do you think he did for the scientific community? \_\_\_\_\_

\_\_\_\_\_

**Facts:** Fill in the blanks as you are following along with the PowerPoint presentation.

1. Dr. Dale Hale Williams was born on January 18, 1856, in Hollidaysburg, Pennsylvania.  
Daniel was the oldest of \_\_\_\_\_ children.
2. When Daniel was 10 his father dies. His family moved to \_\_\_\_\_, Maryland to live with relatives.  
He became a shoemaker's apprentice but disliked the work.  
He returned to his family's \_\_\_\_\_ business.
3. He worked as an apprentice under Dr. Henry Palmer, a highly accomplished \_\_\_\_\_.  
He then completed further training at Chicago Medical Center, graduating with an M.D. degree in 1883.
4. Dr. Dan, as he was known by his patients, set up his own practice in Chicago's South Side and taught \_\_\_\_\_, the study of the structure or inner workings of something.
5. Williams became the \_\_\_\_\_ African-American physician to work for the city's street railway station.
6. May 1891, Dr. Dan opened Provident Hospital and Training School for Nurses, the nation's first hospital with a nursing and intern program that had a racially \_\_\_\_\_ staff in a time when African-Americans were still barred from being admitted to hospitals and black doctors were refused staff \_\_\_\_\_.
7. Famed abolitionist and writer, Frederick Douglass, publically championed this facility Williams worked at as a \_\_\_\_\_.
8. In 1893, Williams continued to make history by being the \_\_\_\_\_ to \_\_\_\_\_ perform an \_\_\_\_\_ - \_\_\_\_\_ on a human, James Cornish, who came in with a severe stab wound to his chest.  
Cornish lived many years after the operation.
9. In 1894, Williams \_\_\_\_\_ to Washington, D.C. He was appointed the \_\_\_\_\_ of the Freedmen's Hospital, which provided care to formerly enslaved African

Americans.

He diligently worked to revitalize, improve surgical procedures, increase specializations, launch ambulance services, and continue to \_\_\_\_\_ opportunities for black medical

\_\_\_\_\_.

10. In 1895, Williams \_\_\_\_ - \_\_\_\_\_ the National Medical Association, a professional organization for black medical \_\_\_\_\_, as an alternative to the American Medical Association, which didn't allow African-American membership.
11. In 1898, Dr. Williams left Freedmen's Hospital and returned to \_\_\_\_\_. He later \_\_\_\_\_ to Cook County Hospital and then to the larger St. Luke's. Beginning in 1899 he \_\_\_\_\_ at Meharry Medical College until 1913. He \_\_\_\_\_ a charter member of the American College of Surgeons.
12. In 1926, Dr. Williams experienced a \_\_\_\_\_ stroke and died five years later on August 4, 1931. Dr. Williams work as a pioneering physician and \_\_\_\_\_ for an African-American presence in medicine continues to be \_\_\_\_\_ by institutions \_\_\_\_\_.

**Video:** *During the video, write down any more facts about Dr. Daniel Hale Williams that you find informational and interesting.*

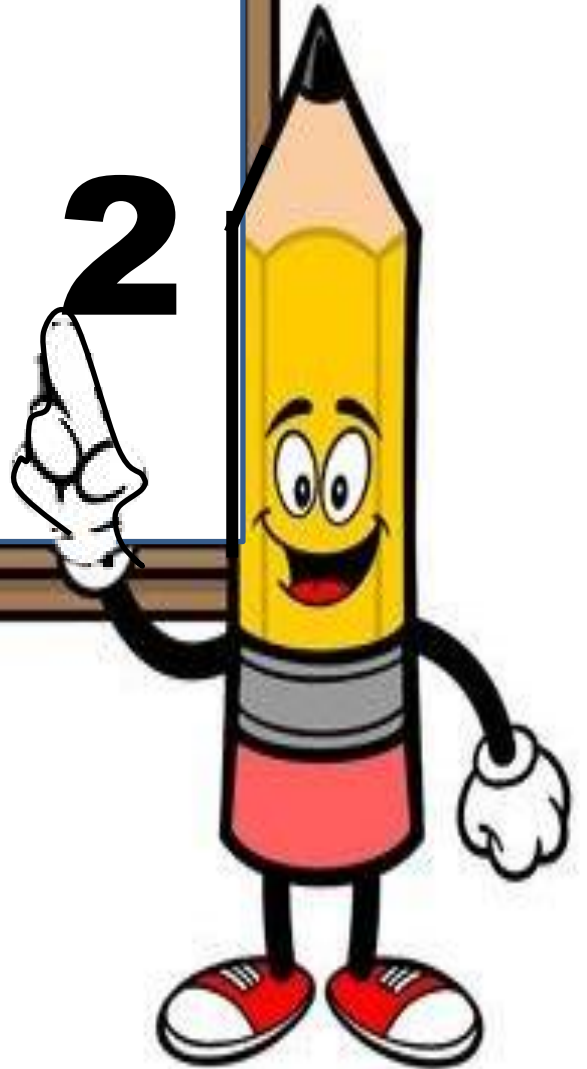
Notes- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**EXIT TICKET:** *Answer the questions using complete sentences.*

1. Who was Dr. Daniel Hale Williams? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. What did he contribute to the science community? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. What was your favorite fact about Dr. Daniel Hale Williams? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# Day # 2



Name: \_\_\_\_\_ Week 24 Day 2 Date: \_\_\_\_\_

BCCS-B

Harvard

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Princeton

**Day 2—Katherine Johnson:**

**The Question:** *Answer the question using complete sentences.*

Who is Katherine Johnson? \_\_\_\_\_

What do you think she did for the scientific community? \_\_\_\_\_

**Facts:** *Fill in the blanks as you are following along with the PowerPoint presentation.*

1. She was a \_\_\_\_\_ at 18 with degrees in both Mathematics and French. Born in White Sulphur Springs, West Virginia on August 26, 1918, she enrolled \_\_\_\_\_ into the 2<sup>nd</sup> grade when she was school age and ready for \_\_\_\_\_ by the age of 10.
2. In 1939, Johnson enrolled as a \_\_\_\_\_ student at West Virginia University after being selected as one of the first three black students—and the \_\_\_\_\_—to attend the states newly integrated graduate school program. After the first session, she opted to \_\_\_\_\_ from school to raise a family with her husband.
3. In the mid-1950s, Johnson \_\_\_\_\_ to NASA but was \_\_\_\_\_. A \_\_\_\_\_, she applied again and \_\_\_\_\_ it \_\_\_\_\_ to become a \_\_\_\_\_ crunching numbers.
4. \_\_\_\_\_ would not go into space without Johnson checking the computer's computations by \_\_\_\_\_ the entire math by hand. He said, "If she says they're good, then I'm ready to go."
5. Johnson played a \_\_\_\_\_ role in the successful \_\_\_\_\_ on the \_\_\_\_\_ through accurate calculations.
6. Johnson \_\_\_\_\_ - \_\_\_\_\_ one of the first textbooks on space while working in NASA's Flight Dynamics Branch at the Langley Research Center. "She literally wrote the textbook on rocket science," said NASA deputy administrator Dava Newman.
7. Johnson \_\_\_\_\_ to early \_\_\_\_\_ for a mission to \_\_\_\_\_. She \_\_\_\_\_ in 1986, decades before NASA would release a detailed plan for reaching the red planet to the public.
8. President Barack Obama \_\_\_\_\_ her the Presidential Medal of Freedom for her \_\_\_\_\_ work in the fields of \_\_\_\_\_ (science, technology, engineering, and mathematics). The medal is the \_\_\_\_\_ a civilian can receive.

9. Johnson received an \_\_\_\_\_ from West Virginia University, more than 75 years after she dropped out of graduate school. She earned the honor by “attending national and international preeminence in the field of astrophysics and providing \_\_\_\_\_ leadership and service in her field.”

**Video:** *During the video, write down any more facts about Katherine Johnson that you find informational and interesting.*

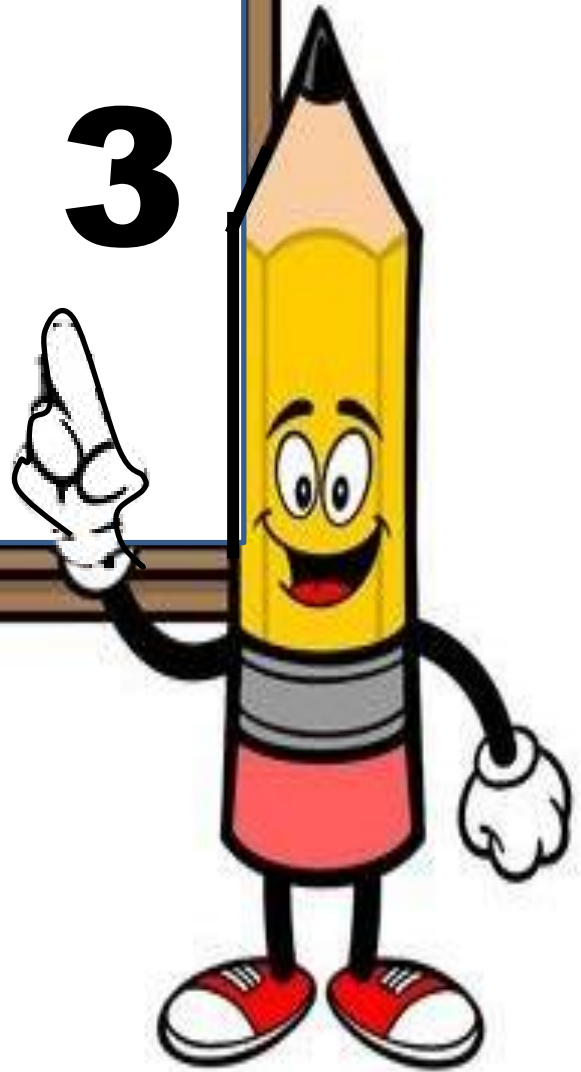
Notes- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**EXIT TICKET:** *Answer the questions using complete sentences.*

1. Who was Kathrine Johnson? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. What did she contribute to the science community? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. What was your favorite fact about Katherine Johnson? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# Day # 3





Name: \_\_\_\_\_ Week 24 Day 3 Date: \_\_\_\_\_

BCCS-B

Harvard

Yale

Princeton

**Day 3—Mae Carol Jemison:**

**The Question:** Answer the question using complete sentences.

Who is Mae Carol Jemison? \_\_\_\_\_

What do you think he did for the scientific community? \_\_\_\_\_

**Facts:** Fill in the blanks as you are following along with the PowerPoint presentation.

1. Mae Jemison was born on October 17, 1956 in Decatur, Alabama.  
She is the \_\_\_\_\_ of three in her family.
2. Mae \_\_\_\_\_ to \_\_\_\_\_ when she was 3.  
She \_\_\_\_\_ an interest in anthropology, archaeology, and astronomy at a very \_\_\_\_\_ age.
3. June 1972, Mae \_\_\_\_\_ from high school at age 16.  
She went to \_\_\_\_\_ University, receiving her bachelor of science's degree in chemical engineering while fulfilling the requirements needed for a Bachelor of Arts degree in African and Afro-American Studies.
4. In 1981, Jemison \_\_\_\_\_ her \_\_\_\_\_ to be a Doctor of Medicine in \_\_\_\_\_ Medical College, now Weill Medical College of Cornell.
5. Mae had an \_\_\_\_\_ in \_\_\_\_\_.  
She took modern dance classes while attending Cornell.  
She \_\_\_\_\_ a dance \_\_\_\_\_ where she choreographed as well as produced shows about modern jazz and African dance.
6. After completing her medical training, Jemison \_\_\_\_\_ the Peace Corps as a Medical Officer for three years in Sierra Leone and Liberia.
7. Jemison \_\_\_\_\_ for the \_\_\_\_\_ program after the space flight of Sally Ride in 1983, the first American woman in space.  
Mae's \_\_\_\_\_ to become an astronaut came from the actress who played Uhura in the famous series, \_\_\_\_\_.  
Jemison was \_\_\_\_\_ on her \_\_\_\_\_ try. However, she \_\_\_\_\_ a call in 1987 asking if she was still interested, and she \_\_\_\_\_ it.
8. She worked as a science mission \_\_\_\_\_ for NASA.

9. September 12<sup>th</sup> to the 20<sup>th</sup>, Jemison, with 6 other astronauts aboard the Endeavour, conducted \_\_\_\_\_ on weightlessness and motion sickness on the crew and herself.  
She was the \_\_\_\_\_ African-American woman in space.
10. Jemison \_\_\_\_\_ from NASA in 1993 to establish her own \_\_\_\_\_ called the Jemison group which researches, develops, and markets science and technological improvements used in daily life.
11. Jemison \_\_\_\_\_ in one of the episodes of Star Trek, the \_\_\_\_\_ ever real \_\_\_\_\_ to make an appearance on the show.

**Video:** *During the video, write down any more facts about Mae Carol Jemison that you find informational and interesting.*

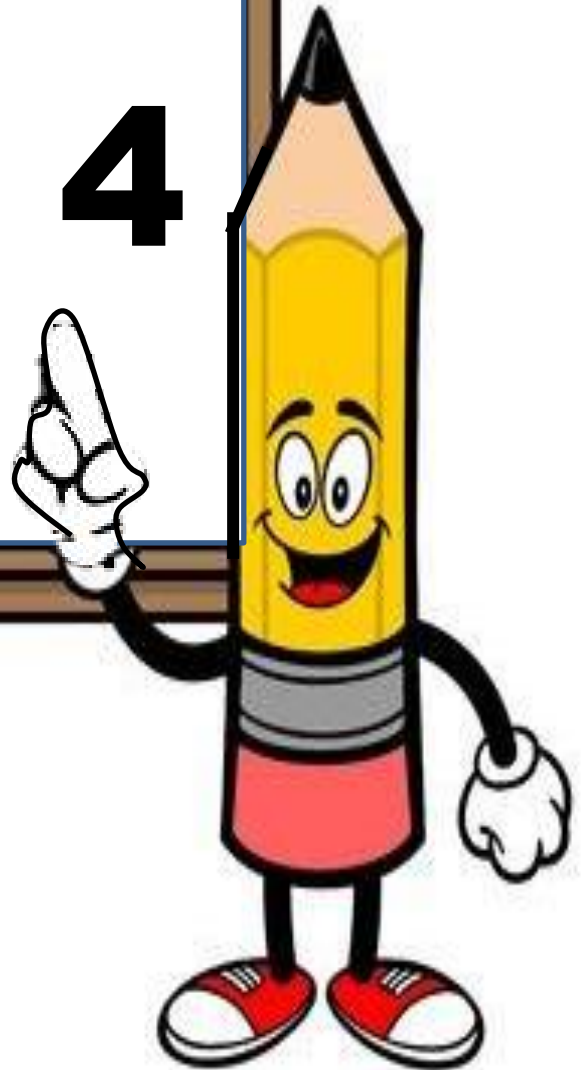
Notes- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**EXIT TICKET:** *Answer the questions using complete sentences.*

1. Who was Mae Carol Jemison? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. What did she contribute to the science community? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. What was your favorite fact about Mae Carol Jemison? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# Day # 4



Name: \_\_\_\_\_ Week 24 Day 4 Date: \_\_\_\_\_

BCCS-B

Harvard

Yale

Princeton

#### Day 4—Emmett Chappelle:

**The Question:** Answer the question using complete sentences.

Who is Emmett Chappelle? \_\_\_\_\_

What do you think he did for the scientific community? \_\_\_\_\_

**Facts:** Fill in the blanks as you are following along with the PowerPoint presentation.

1. Emmett Chappelle, \_\_\_\_\_, was born in \_\_\_\_\_, Arizona on October 25, 1925.
2. Not a stranger to segregation, Chappelle attended primary school in an \_\_\_\_\_ 1- room schoolhouse, then high school at an all black Phoenix public school, where he was \_\_\_\_\_ of his class when he graduated in \_\_\_\_\_.
3. He was then \_\_\_\_\_ to serve in the segregated 92<sup>nd</sup> \_\_\_\_\_ and was wounded twice during the Italian Campaign
4. He attended the University of \_\_\_\_\_ in 1950 and in \_\_\_\_\_ he received a \_\_\_\_\_ degree.
5. Remarkably, without graduate training, he then worked as an instructor of \_\_\_\_\_ for three years at \_\_\_\_\_ in Nashville, Tennessee.
6. Chappelle earned a \_\_\_\_\_ in science with a focus on biochemistry in 1954, but never completed a Ph.D. instead, he worked for various companies as a \_\_\_\_\_.
7. He was a gifted \_\_\_\_\_ scientist and researcher who is the recipient of \_\_\_\_\_.
8. In 1963, Chappelle was hired by Hazleton Laboratories in Virginia, which held contracts with \_\_\_\_\_. There, he studied how we could detect life on other planets like Mars by studying \_\_\_\_\_ soils for microbial life.
9. By 1966, Chappelle was \_\_\_\_\_ at the National Aeronautics and Space Administration (NASA) where he was an \_\_\_\_\_ (someone who engaged in the search for extraterrestrial life and the effects of extraterrestrial surroundings on living organisms) and \_\_\_\_\_ (the chemistry of astronomical objects and interstellar space).

10. To be \_\_\_\_\_ (life that creates its own light) fireflies make two chemicals \_\_\_\_\_, named after the root word Lucifer- which means “bringer of light”.
11. In 2007, he was \_\_\_\_\_ into the National Inventor’s \_\_\_\_\_ for his work on \_\_\_\_\_ in organisms.
12. Emmett Chappelle \_\_\_\_\_ in 2001. He died from \_\_\_\_\_ at his home in Baltimore o October 14, 2019.

**Video:** *During the video, write down any more facts about Emmett Chappelle that you find informational and interesting.*

Notes- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**EXIT TICKET:** *Answer the questions using complete sentences.*

1. Who was Emmett Chappelle?

\_\_\_\_\_  
\_\_\_\_\_

2. What did he contribute to the science community?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. What was your favorite fact about Emmett Chappelle?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_