

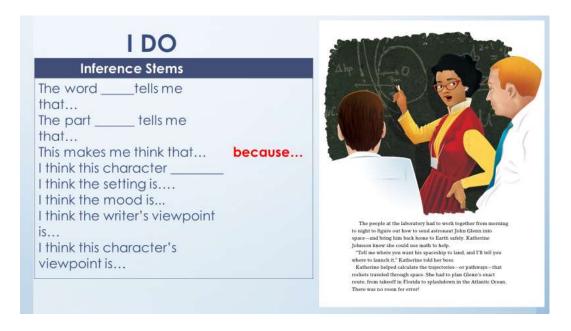
Hub B Year 3 Home Learning

Week beg 24th May 2021

Reading

Lesson 1: Inference

We are continuing with our text – Hidden Figures. We finished last week's learning at the page where President Kennedy announced his ambition to land a human being on the Moon. Continue reading the next page below and use the sentence stems to make inferences.





We DO		1 x 1 x 1 x 1 x 1 1.
Inference Stems		. /
The wordtells me that The part tells me that This makes me think that I think this character I think the setting is I think the mood is I think the writer's viewpoint is I think this character's viewpoint is	because	No one was better than Katherine at solving these tricky mat problems. Days before his mission, John Glenn wanted Kather to double-check the machine computer's trajectory calculation make sure it hadrit made any mistakes. When Katherine said the numbers were correct. Glenn was ready to go. On February 20, 1962, Glenn blasted off this o space

Lesson 2: Inference

Here is some of the key vocabulary you will be seeing this week:



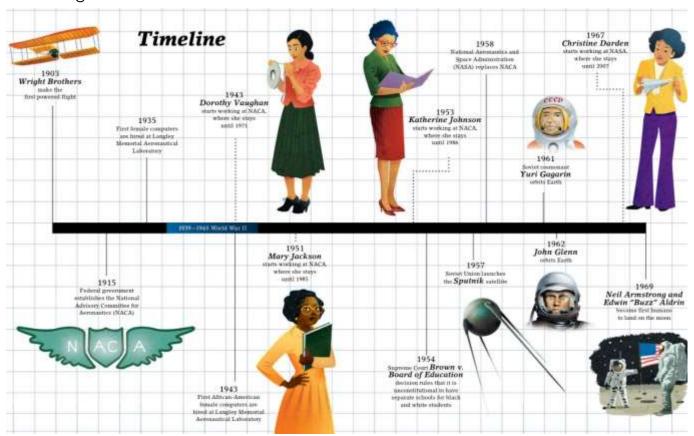
Make inferences using these sentence stems below:



I DO		The people at the laboratory prepared for years to send astronauts to the moon—about 238,900 miles away from the Earth! Finally, on July 20, 1909, the world watched as the three men arrived at the moon in their Apollo 11 spacecraft. 'That's one small step for man, one giant leap for
Inference Stems The wordtells me that The part tells me that This makes me think that I think this character I think the setting is I think the mood is I think the writer's viewpoint is I think this character's viewpoint is	because	mankind, 'sald attronaut Neil Armstrong when he stepped onto the dusty surface. But it was also a giant loop for Dorotty, Mary, Katherine, Christine, and all of the other computers and engineers who had worked at the laboratory over the years.

<u>Lesson 3: Inference - Selfie</u>

Below is a timeline of the key events from the lives of the four main characters as well as important historical events. Answer questions about the timeline using the SELFIE below.





- 1) Why is the timeline an effective way of showing the key information?
- 2) When was the Second World War?
- 3) Who was the first person to orbit Earth?
- 4) When was the first powered flight?

Lesson 4: BIG PICTURE

Below is the text and the questions for the big picture comprehension.

Read the text and retrieve the key information for the first three questions. Use the images as well as the words to help you with the inference question.

Meet the Computers

Dorothy Johnson Vaughan (1910-2008)

Dorothy was been September 20, 1910, in Kansus City, Missouri, She and her family moved to Wilserforce University, a historically black college in Ohio, where she graduated at age nitreteen with a degree in mathematics education. She married Howard Vaughan in 1932, and they had on children.

After college, Dorothy worked as a high school math teacher in Farmville, Virginia. In 1943, she began her job at Langley Memorial Aeronautical Laboratory in Hampton, Verginia. She worked as a mathematician and computer, later becoming NASA's first African-American supervisor. When machine computers were introduced at Langley, Donothy learned the programming language FORTRAN and taught it to her staff. She died in 2008 at age minety-eight.





Mary Winston Jackson (1921-2005)

Mary was been April 9. 1921, in Hampton, Virginia. She graduated with highest honors from the all-black Phentx High School, then graduated from Hampton Institute in 1942 with degrees in mathematics and physical science. She taught math at an all-black high school in Maryland for a year before taking a job as a bookkeeper back in her hometown. She married Levi Jackson St., and they had two children.

Many began work as a computer at Langley Memorial Aeronautical Laboratory in 1951. She worked in a supersonic wind tunnel, studying the impact of wind forces that were nearly notes the speed of sound. In order to be promoted to engineer, che needed to take graduate-level courses in physics and math. She had to petition the City of Hampton, Virginia, for permission to attend the classes because they were held at a white-souly high school. She completed the clauses, and in 1958 she became the first female African-American aerospace engineer at NASA. Late in her career, Mary took a position in NASA's Equal Opportunity Office, where she worked to support the careers of other women and misorities. She volunteered for more than thirty years as a Girl Scott leader. She died in 2005 at age eighty-fitnee.

Katherine Coleman Goble Johnson (1918-)

Katherine was born August 26, 1918, in White Sulphur Springs, West Virginia. Her community did not offer public school for African Americans after eighth grade, so her family arranged for her to attend the high school run by West Virginia State Institute, 125 miles away. She completed high school at age fourteen and went to West Virginia State College, graduating summa comboude at age eighteen with degrees in mathematics and French. In 1979, she married her first husband, Jimmy Goble, and they had three children. Jimmy Goble died of a brain tumor in 1956. Katherine married James Johnson in 1959.

Katherine taught high school math before beginning work as a computer at Langley Memorial Aeronautical Laboratory in Hampton, Virginia, in 1953. Her expertise in analytic geometry earned her a place in the Flight Research Divinion. She worked on the flight trajectories—the flight paths—for Project Mercury, the program that sent the first American automatis into space. Astronaut John Glenn specifically requested that Katherine double-check the computer's calculations of his spacecraft's orbit around the Earth. She also contributed calculations to the 1960 Apollo 17 mission to the mosm.





Big Picture

Retrieval

- 1. How old was Dorothy when she died?
- 2. What was Katherine born?
- 3. Dr Christine became an expert in what?

Inferring

4. The title is 'Meet the Computers'. What does this mean?

Making Connections

- 5. What do the 4 main characters have in common?
- 6. Can you make connections between this and something else you have seen/read?

English

Lesson 1 and 2

This week, you will be using your plan to write your internal monologue.

Here are the key features you will need to include:

- -Show not tell e.g. my heart pounded
- -First person
- -Past tense
- -Rhetorical questions e.g. why would he do that?
- -Brackets for extra information

Lesson 3:

Now that you have finished writing your monologue, you are going to self-assess using the monologue checklist below. Identify how you have been successful.



What have you included? What is the impact on the reader?

LI: to self-assess a piece of writing

Context: Monologue



- Recap the purpose of your monologue
- Read your monologue carefully to identify features included
- Reflect on the success of your writing

Read your monologue carefully to identify how you have been successful.

Here is an example to support you-

I was successful in writing my monologue because I used show not tell to create an image in the reader's mind of Bill's facial expression and body language which gave them clues about his emotions. An example of this was 'hands shaking and sweating' which told the reader that Bill was nervous walking up to the late gate.



I was successful in my writing my monologue because...

Lincluded...

The impact on the reader was...

Monologue Checklist			
Rhetorical questions			
Show not tell			
First person			
Past tense			
Repetition			



Maths

Lesson 1: To find the duration of time.

Today you are going to use your learning from last week to find the duration of time. Remember, this means how long something lasts. Today you will need to count on in hours and minutes to calculate and record the duration.

1) Calculate the duration of the following TV programmes:

Tv Programme	Start Time	End Time	Duration
The Football Show	12:00	14:00	
An Adventure	10:40	15:40	
Dennis the Explorer	15:15	16:20	

E.G. If the programme started at 12:00, I am going to count on in hours and I know that the duration of time will be 2 hours.

2) Calculate the time the following children spent running and complete the sentences:

Rosie started running at 7:20am and stopped at 8:45am. Tommy started running at 9:10 and stopped at 9:55

Rosie ran for ___ minutes.

Tommy ran for ___ minutes.

3) Amir gets on a bus at 15:23. It arrives at 16:22. How long was the bus journey?

START WITH THE ANSWER

EMPTY BOX PROBLEM

The bus journey was ___ minutes long.

Lesson 2: To reason about a mathematical statement.

Today you are going to apply your learning to complete a variety of word problems. You will need to explain and justify your reasoning after solving each problem. You can discuss your ideas with someone at home.

1) Eva starts playing her piano at 11:30.



She plays for 45 minutes before having a half an hour break. She then plays for another 15 minutes.

What time did she finish?

Eva will finish her lesson at ____.

2) Lunchtime begins at the following time:

Lunchtime ends at:





APPLICATION OF SKILLS

WORD PROBLEMS

Teddy and Rosie are working out how long lunchtime lasts for.

Teddy says ''I did three quarters of an hour and then added 10 minutes.''
Rosie says ''I did 1 hour and took away 5 minutes.''

Whose method is correct?

I agree with ___ method because ___

3) Eva and Mo are having a race. It takes Eva 3 and a half minutes to complete the race. It takes Mo 3 minutes and 15 seconds.

Eva says:



Is Eva correct? Explain how you know.

Eva is ____. I know this because ___.

Lesson 3: To apply knowledge of time.

Today you are going to complete your own obstacle course. You will need a stopwatch to time yourself completing the full course. Here is an example obstacle course you can complete whilst you are at home:



- 1) 20 star jumps
- 2) 15 burpees
- 3) 10 high knees
- 4) 20 sit ups
- 5) 20 frog jumps
- 6) 15 press ups
- 7) Run around the edge of your room
- 8) 10 jumps on one leg
- 9) 10 jumps on the other leg
- 10) 15 jumping squats



When you have completed the course, answer the following questions in your books:

- 1) How long did it take for you to complete the course?
- 2) How many seconds did it take for you to complete the course?
- 3) How many minutes did it take for you to complete the course?
- 4) What knowledge did you need to answer the above questions?

<u>Lesson 4: To reflect on a learning journey.</u>

Today you are going to reflect and evaluate your learning journey of time. Before you begin, recap what you have learnt about time, what you have found challenging and what your next steps are. You could even discuss your reflections with someone at home.

Use these discussions to answer the following questions in your books:

- 1) What knowledge/strategies did you use to complete the final activity? To complete the activity I used my knowledge of ____.
- 2) What has been successful in your learning journey? This term, I have learnt ___.
- 3) What have you found challenging? How did you overcome this? I found ___challenging. I overcame this by ___.
 - 4) Where are you currently on the progress line? What are your next steps?

On the progress line I am a ___.
I would like to continue to ___.





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History

Lesson 1:

Lesson 2:

Art