

NEW YORK TIMES BESTSELLER

THE BOOK THAT INSPIRED THE FILM

THE AMERICAN DREAM  
AND THE UNTOLD STORY OF  
THE BLACK WOMEN MATHEMATICIANS  
WHO HELPED WIN THE SPACE RACE

# HIDDEN FIGURES



MARGOT LEE SHETTERLY

**Book and homework  
on your desk.**

**You will have 10  
minutes to read HF.**

# Great examples:

**In this chapter we are first introduced to Dorothy Vaughan. What are three adjectives you would use to describe her? Use text to support your choices.**

Intelligent, she is a teacher and works at a high school. Hard working with this job she has to not just teach the students but keep up the building make lunches and take care of her family at home. Caring she takes a extra job with a salary of 40 cents per hour in the heat of summer to make extra money for her children and family.

**Read the back cover of the book. Based on the back cover, what is the setting of the book? Who are the main characters? What obstacles might the characters face?**

Dorothy Vaughan, Mary Jackson and Katherine Johnson are the main characters. The setting of the book is during the Cold War right after WWII. The characters will face the challenge of segregation, because of the time period of America, and Jim Crow Laws.

## Not so great example:

**In this chapter we are first introduced to Dorothy Vaughan. What are three adjectives you would use to describe her? Use text to support your choices.** Intelligent, she is a teacher and works at a high school. Hard working with this job she has to not just teach the students but keep up the building make lunches and take care of her family at home. Caring she takes a extra job with a salary of 40 cents per hour in the heat of summer to make extra money for her children and family.



**10 MINUTES**

# Announcements

Exponents tests returned soon

HF through Chapter 6 must be completed by Monday

Test Wednesday, 2/20

# Unit Map

~~Thursday, 2/7/2019 → Transformations of functions~~

~~Friday, 2/8/2019 → Ms. Barger Absent, Hidden Figures reading and work~~

~~Monday, 2/11/2019 → Exponential Growth and Decay~~

~~Tuesday, 2/12/2019 → Compound Interest and Half Life~~

Wednesday, 2/13/2019 → Transformations of Exponentials

Thursday, 2/14/2019 → Scientific Notation converting back and forth

Friday, 2/15/2019 → Scientific Notation adding and subtracting & multiplying and dividing

Monday, 2/18/2019 → Scientific Notation word problems

Tuesday, 2/19/2019 → Review

Wednesday, 2/20/2019 → **Exponents Test 2**

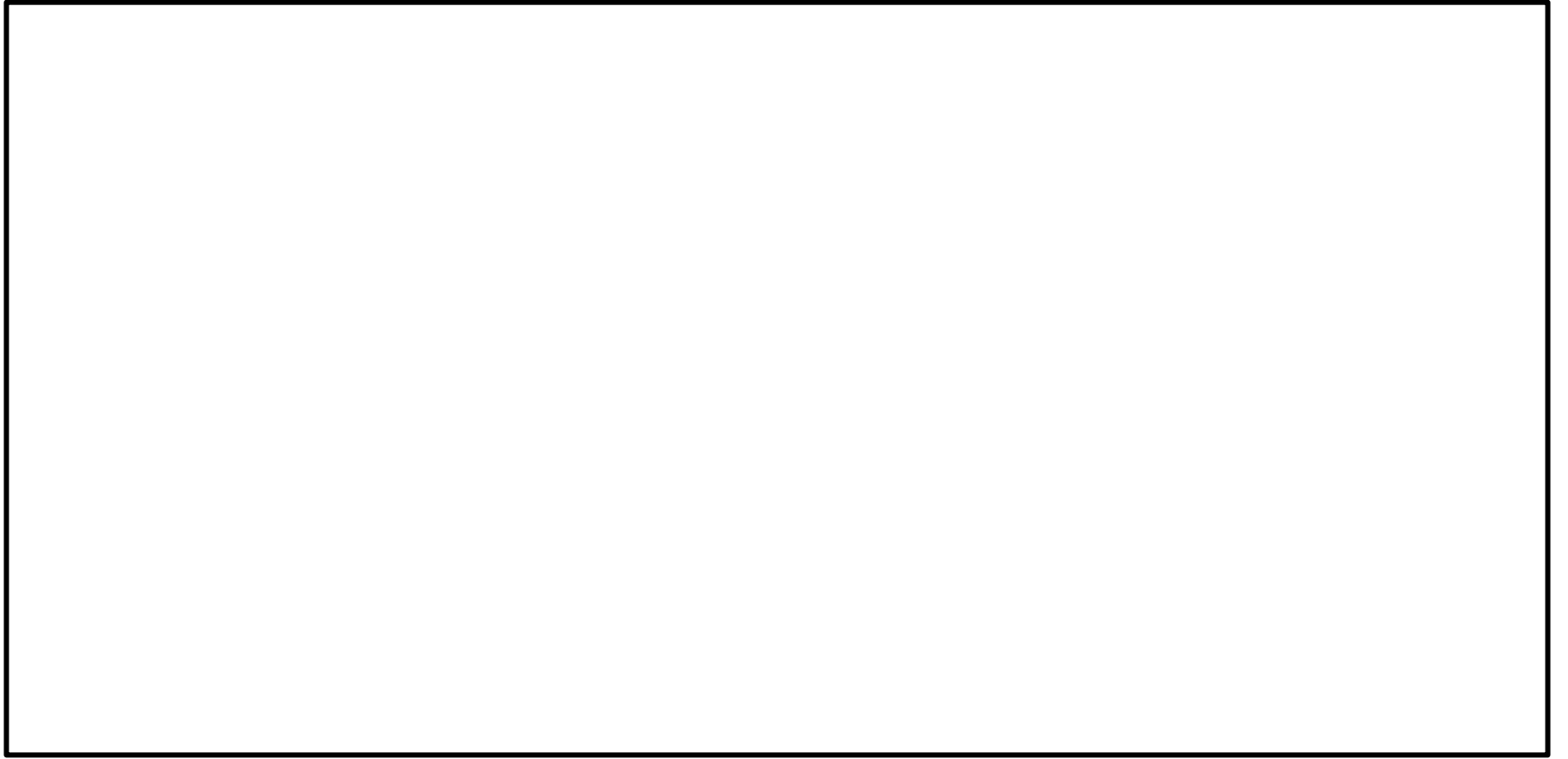
# Quizlet

[https://quizlet.com/\\_642L9y](https://quizlet.com/_642L9y)

# Transforming Exponential Functions

2/13/2018





# Foldable

Basic Exponential Function:  $y = ab^x$ , where  $a \neq 0$ ,  $b > 0$ ,  $b \neq 1$ ,  
and  $x$  is a real number

Transformations:  $y = ab^{c(x-h)} + k$

- ① if  $a$  is negative, reflects across the  $x$ -axis
- ② if  $|a| > 1$ , vertical stretch, if  $|a| < 1$ , vertical shrink
- ③ if  $k > 0$ , vertical shift up, if  $k < 0$  vertical shift down
- ④ if  $c$  is negative, reflects across the  $y$ -axis
- ⑤ if  $|c|$  is greater than 1, horizontal shrink, if  $|c| < 1$ , horizontal stretch
- ⑥ if  $h > 0$ , horizontal shift left, if  $h < 0$ , horizontal shift right

\* Things happening away from the  $x$  are always vertical translations and are exactly what you see

\* Things happening to the  $x$  are always horizontal translations and the opposite of what you see

Transforming Exponential Functions

# IXL Practice

<http://bit.ly/2thS44>

# Work on Math Lab: Graphing Exponential Functions