



## INTRODUCTION

This handout complements the Click and Learn “Virus Explorer” developed in conjunction with the 2016 documentary, *Spillover: Zika, Ebola & Beyond* (<http://www.htmi.org/biointeractive/virus-explorer/>).

## PROCEDURE

Follow the instructions as you proceed through the Click and Learn, and answer the questions in the spaces provided.

1. Let’s review. Click on the “About” tab at the bottom. Read the information and list four (4) ways in which viruses can differ from each other.

Viruses can differ by:

- structure
- transmission mechanism
- genome type
- host type

2. This interactive uses several abbreviations. Fill in what each abbreviation stands for in the table below.

Abbreviation	Description
nm	Nanometer
bp	Base pairs
ss	Single-stranded
ds	Double-stranded

3. Close the “About” window, and locate the  next to each viral characteristic tab across the top. Click on these icons and answer the questions below associated with each viral characteristic.

a. **Envelope:** Not all viruses have an envelope. If a virus has this outer layer, explain how it forms. If a virus has an envelope, then its formation was caused by the virus exiting the host cell via budding from the cell’s surface. When this happens, the membrane of the host cell “envelopes” the virus, thus forming an outer layer (a.k.a. the envelope). The envelope contains embedded viral proteins.

# [Click And Learn Virus Explorer Student Handout](#)

**Robert R. Redfield**



**Click And Learn Virus Explorer Student Handout:**

The Top Books of the Year Click And Learn Virus Explorer Student Handout The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. Click And Learn Virus Explorer Student Handout : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Click And Learn Virus Explorer Student Handout : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://wwwnew.greenfirefarms.com/data/publication/Documents/Norco%20Full%20Suspension%20Bike.pdf>

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