Mrs. Ancona – (Active) Physics

Make up for “an hour of code”

Write your notes/observations on a SEPARATE PAPER to be turned in

– ***there are 3 parts***.

***Part One:***

Research general uses for computer simulation in Physics

Write 15-20 notes on the article you find. Two suggestions are linked below:

<https://www.wired.com/2015/11/what-computational-physics-is-really-about/>

<https://www.nibib.nih.gov/science-education/science-topics/computational-modeling>

***Part Two:***

Research specific uses for computer simulation in Physics and Science

Write 10-15 notes on the specific scientists you find and their own areas of research.

Choose one from among those at the University of Michigan (main link below):

<http://www.engin.umich.edu/che/research/areas/simulation>

OR pick this one on a simulation about parting the red sea – like Moses

<https://www2.ucar.edu/atmosnews/news/2663/parting-waters-computer-modeling-applies-physics-red-sea-escape-route>

***Part Three:***

Write a paragraph (5-8 sentences that make sense together) that describes your impressions of using computer simulations in the study of physical phenomena.

Some questions you could answer:

What is the value of a computer simulation over a physical experiment?

What kinds of work are scientists doing today?

What did you learn that you never knew before through your research?