**9-12 Supplementary Science and STEAM Resources for Home Learning**

Above all, we want to keep students at this grade level curious and questioning. Where possible students should be encouraged to investigate areas of personal interest and relevance. At this grade level students should be asking relevant questions based on observations, research and personal interest that lead to thorough scientific investigations. Their investigations should be moving toward ‘fluent’. Scientific journaling is a vital part of investigating in Science and STEAM. Please encourage students to keep a scientific journal each week of their investigations.

* Khan Academy: <https://www.khanacademy.org/>
* TeachEngineering:<https://www.teachengineering.org/>
* Science Fair Central: <https://www.sciencefaircentral.com/>
* PhET simulations: <https://phet.colorado.edu/en/simulations/category/by-level/high-school>
* Science Buddies: <https://www.sciencebuddies.org/science-fair-projects/project-ideas/high-school?c=VeryLow>
* Ask a Biologist: <https://askabiologist.asu.edu/>
* Video Resources:
  + Mark Rober: <https://www.facebook.com/MarkRoberYouTube/posts/3129485350395544>
  + Joseph’s Machines (Rube Goldberg style)

<https://www.youtube.com/user/allonewordplease>