These three PEs are included within the HS Biology course but have also been recommended for HS Chemistry

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| Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy. |
| Construct and revise an explanation based on evidence for how carbon, hydrogen, and oxygen from sugar molecules may combine with other elements to form amino acids and/or other large carbon-based molecules. |
| Use a model to illustrate that cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are formed resulting in a net transfer of energy. |