Decoding Starlight
Connecting to School Science

**Matter**
- made of Atoms
  - have two structural components
    - Nucleus
      - made of Neutrons, Protons
    - Electrons
- mostly H and He

**Energy**
- we see with our eyes as composed of many Light
- in order of wavelength from largest to smallest

**KEY**
- Stars
  - 1. Sun
  - 2. Core
  - 3. Photosphere
- nuclear fusion produces photons (light)
- then goes into layer of the Sun we see
- enters the Spectrograph
- light interacts with Diffraction grating
- Spectrum

**Sequence**
1. the Sun is a star
2. emits into space
3. colors
4. red, orange, yellow, green, blue, violet
5. heliostat
6. disperses light into its colors

**Student Key**
- _4_ red, orange, yellow, green, blue, violet
- _2_ emits into space
- _6_ disperses light into its colors
- _1_ the Sun is a star
- _5_ heliostat
- _3_ colors