Our Place in the Universe (Summative) Name \_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_

Hour \_\_\_\_\_\_\_\_\_\_\_\_\_

**Directions**: Create a 3- page diagram/book that features our place in the universe. One page will feature the universe. Page 2 will feature our galaxy and page 3 will feature out solar system. The 3 pages should be taped together or attached when completed. Check off each part of the project as you complete them.

**Universe Page** (Orange p. 740-745) E5.3A

\_\_\_ Diagram of the 3 different shaped galaxies

\_\_\_ Diagram of a nebula and start cluster (Orange 736, Green 838, 848)

\_\_\_ Label all diagram

\_\_\_ Define “Universe”

\_\_\_ Estimate the number of galaxies in our universe

\_\_\_ Define parallax (Green 841)

**Milky Way Galaxy Page** (Orange 740-745, Greenn 862-880)

\_\_\_ Diagram of the Milky Way Galaxy

\_\_\_ Label the constellation Sagittarius on your Milky Way Diagram (Bellwork)

\_\_\_ Label and illustrate the black hole in the Milky Way.

\_\_\_ Identify the shape of our galaxy

\_\_\_ Label our solar system's location in our galaxy

\_\_\_ Estimate the number of stars in our galaxy

\_\_\_ Explain how our galaxy got the name “Milky Way” (Bellwork)

\_\_\_ Explain what binds the Milky Way together.

\_\_\_ Illustrate and describe a galaxy other than the Milky Way (Bellwork)

**Solar System Page** (Orange 690-713, Green 796-819) E5.1A

\_\_\_ Diagram of our Sun, with a sunspot and sun flare (Orange 730, Green 832-833)

\_\_\_ Diagram of the 8 planets (Orange 696-709, Green 804-816)

\_\_\_ Include 2 other objects that are in our solar system (comets, meteor, asteroids) (Orange 710-713, Green 818-819)

\_\_\_ Label all items

\_\_\_ Define “Solar system”

\_\_\_ Define “Solar wind” (Green 832)

\_\_\_ Define “Auroras”

\_\_\_ Explain nuclear fusion and how it relates to the Sun and other stars. (Orange 736, Green 834

**Overall Project Requirements**

\_\_\_ Have a whole-project title

\_\_\_ Have a subtitle on each page

\_\_\_ Neat and colorful