**Constellation Project Astronomy NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Due Date \*\*\*MONDAY MAY 13\*\*\*\***

**SAST3.** Students will describe and explain the celestial sphere and astronomical observations made from the point of reference of the Earth.

**Objective:** Create a creative project that applies the knowledge from labs/activities, and skills performed and acquired from this course to describe observations of the stars in the sky and to learn the history and mythology associated with the star constellations viewed from Earth.

**Part 1: Star Poster Total 80 Points (see rubric)**

**Section A: Create a presentation of your selected constellation from the class list.**

* The back of the cover must include: Your Name / Class Block Number
* The front of the poster must include the information below:

**STELLAR PROPERTIES THAT MUST BE INCLUDED FOR EACH CONSTELLATION**

􀀀 Constellation **Name** and **Diagram**

􀀀 **Dates** and **Time** of when constellation is best viewed from Atlanta, Ga

􀀀 **Brief history** of this constellation

􀀀 **Visible planets**/time of visibility (if your constellation is on the **ecliptic**)

􀀀 **Ten Brightest Stars** in the constellation and the following Stellar Properties for each:

O Name of the Star

o Apparent Magnitude

o Absolute Magnitude

o Right Ascension and Declination

o Distances from the Sun

o Spectral Class

o Size Compared to the Sun (from calculations)

o Scale Model (*procedure will be shown*)

o Color (to be *displayed* also)

o Temperature

**Section B: Work Cited Page** included on a page attached to the back of the poster.

**PART 2: Create your own Constellation Total 20 Points (see rubric)**

Throughout history, people have used stars to navigate, keep track of time and dates, to know when to plant and harvest and to preserve legends. When the stars were used to make a celestial calendar, the brighter stars were grouped into recognizable shaped, called constellations.

For this part of the project, you will research constellations and their legends and create your own constellation.

**Section A: Graph your name.**

1. The alphabet is written across the top (X axis) of the graph worksheet.
2. Write your name vertically down the Y axis. (Skipping a space between each letter of your name will spread the picture out better.)
3. Start with the first letter in the written name. Follow along that row parallel to the X axis until you come to the column with that letter of the alphabet and draw a star in that square.
4. Continue with the other letters

**Section B: Draw your Constellation**

1. Once all the X’s are on the graph “connect the stars”
2. Observe the diagram and see if there is any pattern to the layout.

**Section C: Create a Folklore Story or Legend based on your constellation**

**Section D: Final Copy of your constellation**

1. Make a picture of your constellation on black construction paper using a white colored pencil.
2. Attach your constellation to your folklore story.

(Attach to the construction paper)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **(Your Constellation’s Name)**

**Constellation Story** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 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**Rubric Constellation Project NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\*\*\*\*DUE DATE MONDAY MAY 13\*\*\*\***

**\_\_\_\_\_ Poster (5 pt)**

1. Title on front of the poster c) Turned in on time
2. Name d) Class Block Number

**Rubric Part 1 Constellation Research**

\_\_\_\_\_ Constellation Name (2 pts.) \_\_\_\_\_ Constellation Diagram (2 pts.)

\_\_\_\_\_ Date and Time viewed from Atlanta (2 pts.) \_\_\_\_\_ History or Folklore of Constellation (5 pts.)

\_\_\_\_\_ Ten Brightest Stars and their Properties (Total 60 pts.)

\_\_\_\_\_ Star #1 (6 pts.) \_\_\_\_\_ Star #6 (6 pts.)

\_\_\_\_\_ Star #2 (6 pts.) \_\_\_\_\_ Star #7 (6 pts.)

\_\_\_\_\_ Star #3 (6 pts.) \_\_\_\_\_ Star #8 (6 pts.)

\_\_\_\_\_ Star #4 (6 pts.) \_\_\_\_\_ Star #9 (6 pts.)

\_\_\_\_\_ Star #5 (6 pts.) \_\_\_\_\_ Star #10 (6 pts.)

**\_\_\_\_\_** Works Cited Page (4 pts.)

**Total Points Part 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/80 pts**

**Rubric Part 2 Personal Constellation**

\_\_\_\_\_\_\_ Graphed Name Correctly **(2 pts)**

\_\_\_\_\_\_\_ Copied picture on graph to black paper correctly **(3 pts)**

\_\_\_\_\_\_\_ Created Name for Constellation based on picture **(5 pts)**

\_\_\_\_\_\_\_ Developed Story about constellation **(10 pts)**

**Total Points Part 2: \_\_\_\_\_\_\_\_\_\_\_\_ / 20 pts**

**PROJECT GRADE\_\_\_\_\_\_\_\_\_\_ / 100 pts**

**COMMENTS:**