Tumacácori National Historical Park - Padre Kino's Quest

The Astronomer: Language Arts-based Classroom Lesson



While Padre Kino was in Spain preparing for his journey to the Americas, he witnessed and documented a dramatic astronomical event - the Kirch Comet. Kino and other astronomers watched this event, measured its movement across the sky, and explored its meaning. The report Kino wrote on the subject was read and debated by fellow astronomers across the globe.

Read Old Spanish

DELINEACION YPARTES DEL CIELO que el Año de 1680. Por los schavisto entodo el Mundo Con	POR DONDE Meses de Novie 12. DESCRIPC CATUVO CADA UNO	JO DE E DISCV embre ypicier ION del Cui o de los dias	LAS (RRIO EL nbrey el de 168 esoy Hovimie gve durò	CONSTELA GANDIOSOCO TOPOPIOS Meses de H ento Proprio que e	CIONES DMETA leneroyFebre The COMETA
In order to understand Kino's re	port, you'll nee	d to first trar	nscribe the or	riginal print.	
Try the first line here:					
Stump Padre Kino					
Writing styles change. Would Pac Kino's time had some different c				•	ng during
1) Round out the base of the lette on the first line into the word "d	er V and you ha ibujo" which m	ive a U. That leans "drawi	turns the my	sterious DIB	VJO
2) Some S's were written like F's	which turns	effe int	o "este" whic	ch means "this."	
3) There was no backspace or de they added it above in small type what's called a "superscript" mea	. This printer m	nissed the R i	n the word "(GRANDIOSO," s	so it became
GAND	10 80	$=G^{R_A}$	ANDIOSO	= grandioso	= great
Write your favorite 21st century would translate it for Padre Kino	ext abbreviatio	on (e.g. LOL,	BRB) or emo	oji (e.g. /00)anc	l how you
	means				
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Translate the Words

Use a knowledgable Spanish speaker, a Spanish-English dictionary, or online tool like Google translate to translate the actual text of Kino's title.

DELINEACION Y DIBUJO DE LAS CONSTELACIONES Y PARTES DEL CIELO POR DONDE DISCURRIO EL GRANDIOSO COMETA

que el Año de 1680 por los Meses de Noviembre y Diciembre y el de 1681 por las Meses de Henero y Febre^{ro} se ha visto en todo el Mundo Con la DESCRIPCION del Curso y Movimiento Proprio que este COMETA tuvo cada uno de las días que duro

When did Kino observe the comet? Circle the months on the proper years.

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1680

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 1681

Interpret the Image

Examine the graphic Kino created (on page 3) that describes the course of the comet.

- 1) Find and highlight the path of the comet in YELLOW
- 2) Find and color these constellations (hint: remember about V's and U's):

Zignus the Swan

Scorpius the Scorpion

Capricornius the Goat **ORANGE**

Pisces the Fish GREEN

Aquarius the Water Carrier **BLUE**

Aries the Ram **PURPLE**

Cetus the Sea Monster GRAY

3) Find the numbers along the edges of the graph. What is the largest number you can find? ______

Using the diagrams at the bottom of the page as clues, what do you think this number might reference?

