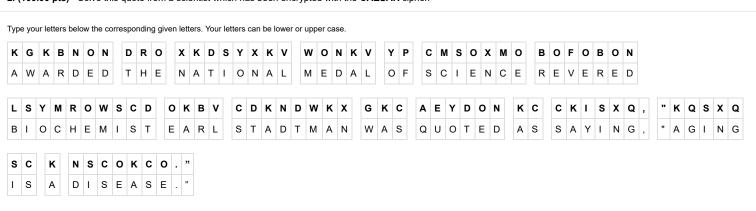
Per Texas Science Olympiad rules, you must have printed notes for this event. If you are communicating with your partner through a voice or video call, please start it before you begin the test itself.

Significant time spent outside of the browser window is grounds for a penalty or disqualification per TSO policies.

1. (300.00 pts) [TIMED] Decrypt this ARISTOCRAT, which is a quote from a 20th century musical. Make sure only one person is entering the letters or else your progress might be written over. Make sure to press SUBMIT when you think you have the correct solution. The system will notify you if your answer is correct and you will receive the appropriate time bonus. [FREQUENCY] Type your letters below the corresponding given letters. Your letters can be lower or upper case. H E P Z P K D Z P T V L LJHTQJ P N C Z P V V T D U D Q EL Н X D D M TU S THERE M O R E U н А S G 0 0 D I N HETV YDJUHZF D Q DJZV HELU H E P PUH ODTYPV D Q D J Z UNT RY O F OURS THE ОΙ CES O F Y | E | T | W | M | Z | P | U | ? CHILDREN? 2. (100.00 pts) Solve this quote from a scientist which has been encrypted with the CAESAR cipher. Type your letters below the corresponding given letters. Your letters can be lower or upper case.



3. (125.00 pts) Solve this AFFINE cipher which is a quote from "The Legend of Sleepy Hallow". You realize that a = 17 and b = 22.

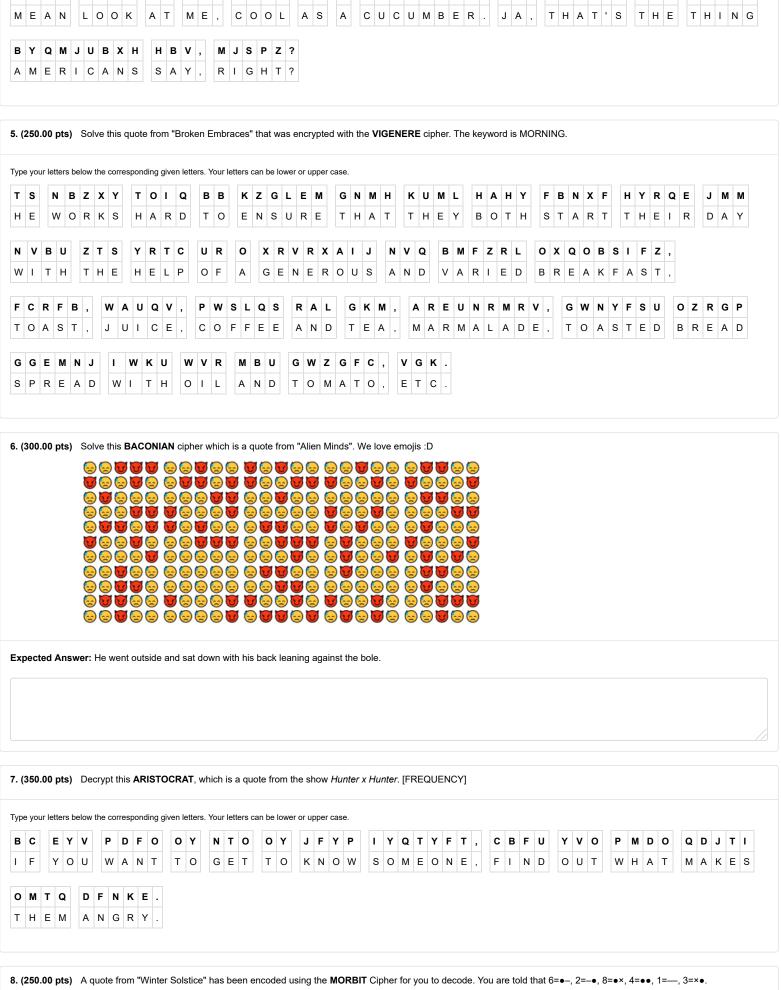
Type your letters below the corresponding given letters. Your letters can be lower or upper case.

H L A Y U L H L M J C U L H G W Q V W Z K W J V V C Q S W B O M H H L M D A Z S T H O U G H T H E N I G H T W A S D A R K A N D D I S M A L Y E T T H E F O R M

A D H L M Y J K J A G J S C U L H J A G C J Q A S M V M U Z M M N M W Q E M Z H W C J M V .

O F T H E U N K N O W N M I G H T N O W I N S O M E D E G R E E B E A S C E R T A I N E D .

4. (250.00 pts) Decrypt this ARISTOCRAT, which is a quote from the first-person shooter game VALORANT. Hint: The last word in the quote is "RIGHT". [FREQUENCY] Type your letters below the corresponding given letters. Your letters can be lower or upper case. QR J JA Υ Х N Z QR ZP QX V N O Н 0 Х N Z CQ SSED T H E Y O U STRESSED 0 N O T Y O вх BZ a L B



Y C Q M

L B

QBX

Q

8. (250.00 pts) A quote from "Winter Solstice" has been encoded using the MORBIT Cipher for you to decode. You are told that 6=•-, 2=-•, 8=•×, 4=••, 1=--, 3=> 4 8 1 9 1 3 7 3 8 1 3 3 4 5 6 9 8 7 6 7 8 1 9 6 9 3 1 8 8 1 9 6 2 3 2 8 8 3 1 3 4 8 1 9 3 9 6 8 8 7

7171569192743323684964542 7132569196828483839152717 51923519425944379 Expected Answer: Sometimes we know people who are too wonderful for words. I am not one of them. 9. (250.00 pts) Solve this song lyric that is encrypted with the HILL cipher. You know that the matrix is BEAT [1 4 / 0 19]. $\begin{pmatrix} E \\ T \end{pmatrix} \equiv \begin{pmatrix} 1 & 4 \\ 0 & 19 \end{pmatrix}$ Type your letters below the corresponding given letters. Your letters can be lower or upper case. W B O N E X M X X Y L A Z F I R V D U L C E I N A E U N B E L O N G T O T H E L A N D O F T H E R I S I N G S U N DULCXXYWLGJKWSNKUELE WHERETHEGRAVEISNOMORE 10. (300.00 pts) Encrypt this quote from a romance manga with the VIGENERE cipher. The keyword is HORIMIYA. Type your letters below the corresponding given letters. Your letters can be lower or upper case. THERE ARE SEND Ρ V P Y R L CKP C H B J M Z L REEH M E S S A G E S T H E PURPOSE O F C O R N E R I N G SOMEONE, USING W I T H D M E A Y G L G N Q F P R H L D L Z B W Q E VT T W D V C R P B X A A U C O U S L A U V E E M O T I C O N S LIKE THIS. FPGS ETCKQOWLS S W B M

11. (400.00 pts) Decrypt the following quote from a Disney movie. You know that the quote is an ARISTOCRAT with spelling mistakes. [FREQUENCY]

Type your letters below the corresponding given letters. Your letters can be lower or upper case.

M K B O w o x k WHEO WFUXHEOX GS Ε S Α 1 D D L ВΙ MESY V E A L N O I V H U UFNO H G F W H M R V H G Q O X U C U X F U V WHUOC SB Α нсо, KA. O F A R E C H A N G E STRTS M A T E RWHAT TIPE A N I M A U WITH

12. (250.00 pts) A quote has been encoded using the POLLUX Cipher for you to decode. You are told that 6=x, 4=•, 2=•, 0=•, 1=x, 5=-.

4066254263536000364662596436960605266

 $40469936653600563432\ 6224066426629633$

6645664024630396340625463556600006333

63562464

Expected Answer: I love water so much. I am a hydro homie.

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17. (400.00 pts) Solve this ARISTOCRAT. [FREQUENCY]

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Type your letters below the corresponding given letters. Your letters can be lower or upper case. U Z H D Z T Ε s o G M D J ВН A H M ЕВ Z B J F A B Y A K Y T FΙ X E D S Ν N E MY

Thanks for taking our test! Feel free to contact us at martinmnguyen@utexas.edu and siddhant.arora@utexas.edu.

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Good luck on the rest of your events!

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