

1. Physics Puzzle

Why are space centres like Cape Canaveral usually located in tropical climates?

2. Cryptogram - Crack the code on this quote from a famous historical figure

The cryptogram is a substitution code where every letter of the alphabet has been replaced by another.

A I I U I U E U O Y X Y U X L B Z C A
_ _ _ _ _ _ _ _ _ _

R U M A I B R A F V J A I A I A B Q U X
_ _ _ _ _ _ _ _ _ _

Y Q M A E R E I A A R U D U L C B R Y R
_ _ _ _ _ _ _ _ _ _

3. Find the jumbled musical instruments

1. APOIN _____
2. TELUF _____
3. UTIGRA _____
4. LOECL _____
5. ONOSABS _____
6. EBOO _____
7. NOVILI _____
8. PENSOXAH _____
9. RDMU _____
10. NALTECIR _____
11. SMALYCB _____
12. ONIMADLN _____
13. TEUL _____
14. CHIMAROAN _____
15. NOYLEXOPH _____
16. CRANIOA _____
17. ETOBRONM _____
18. AUBT _____
19. JOANB _____
20. HERZIT _____
21. AELGRTIN _____
22. SCATNESAT _____
23. LEULKEU _____
24. RAPH _____
25. OBUMITNEAR _____

Solutions:

1. Spacecraft are launched in the direction of the Earth's rotation from west to east. To take advantage of the maximum 'push' from the Earth, launch sites are located as close to the equator as possible
2. Error of opinion may be tolerated where reason is left free to combat it.
Thomas Jefferson
3. The musical instruments are:

1. Piano
2. Flute
3. Guitar
4. Cello
5. Bassoon
6. Oboe
7. Violin
8. Saxophone
9. Drum
10. Clarinet
11. Cymbals
12. Mandolin
13. Lute
14. Harmonica
15. Xylophone
16. Ocarina
17. Trombone
18. Tuba
19. Banjo
20. Zither
21. Triangle
22. Castanets
23. Ukulele
24. Harp
25. Tambourine