

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

Excellent score 10 minutes, Pass 25 minutes.

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

Time limit: 10min. A score of 15 is fair, 17 average, 20 very good, 22 excellent, 24 brilliant!

- | | |
|----------------|-------|
| 1. APOIN | _____ |
| 2. TELUF | _____ |
| 3. UTIGRA | _____ |
| 4. LOECL | _____ |
| 5. ONOSABS | _____ |
| 6. EBOO | _____ |
| 7. NOVILI | _____ |
| 8. PENSOXAHO | _____ |
| 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