Worksheet
1. What country launched the world's first man-made satellite, Sputnik, into Earth orbit on October 4, 1957?
2. Because Sputnik travels at 18,000 mph, it can make an orbit of Earth every ____ minutes.
3. Satellites passing overhead are visible in a clear dark sky one hour after ________ and one hour before ________.
4. Sputnik travels at a height of _______ miles above the Earth.
5. Describe what Sputnik looked like passing through the sky:
   +
   +
   +
   +
   +
6. What did Homer use as the fuel for his first rocket?
   +
   +
   +
   +
7. What happened to the Vanguard rocket launched by Dr. Werhner Von Braun?
   +
   +
   +
8. Rocketry was invented by the ____________, as early as 1000 AD.
9. Homer learns about potassium chlorate and sulfur to use as ________ for his rockets.
10. Draw the rocket and match/lable the parts:
    Nose cone
    Body tube/combustion chamber
    Nozzle
    +
    +
    +
    +
    +
    +
    +
    +
    +
11. The purpose of the nozzle in a rocket is to direct the flow of _______________.
12. Miss Riley says, "Science requires ___________.
13. What do the boys build at Cape Coalwood to use for launching rockets?
+ + + +
14. When potassium chlorate and sugar are combined with heat, oxygen and expanding gases are produced, making an effective rocket _______________.
15. What lab safety equipment do the students use in the classroom?
+ + + + + + + +
16. When the rockets exploded, heat from the exhaust was melting the _____________.
17. When rocket fuel combusts, the nozzle directs a hot river of gas that reaches the speed of _____________.
18. If the mass of the propellant compared to the mass of the rocket is too little, increase the _____________ of the rocket.
19. The properties of alcohol are that it is stable and dilutes _________________.
20. What measurement do the rocket boys make during the rocket flights to calculate the height of the rocket?
+ + + + + + + +
21. Who told Homer at the national science fair "Congratulations and good luck"?
22. What happened to Miss Riley during the science fair?
+ + + + + + + +
23. What career did Homer end up having?