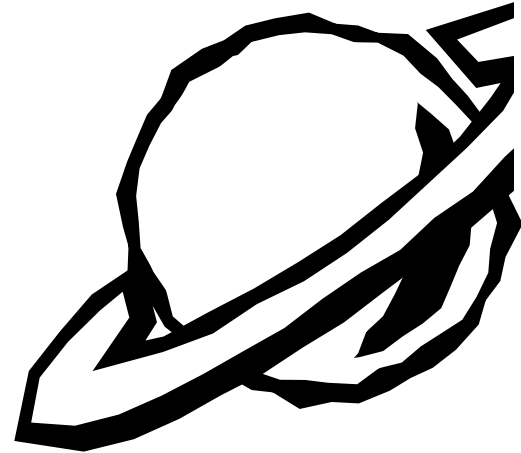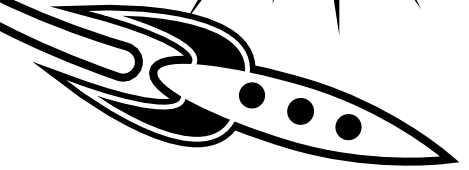# Out of This World
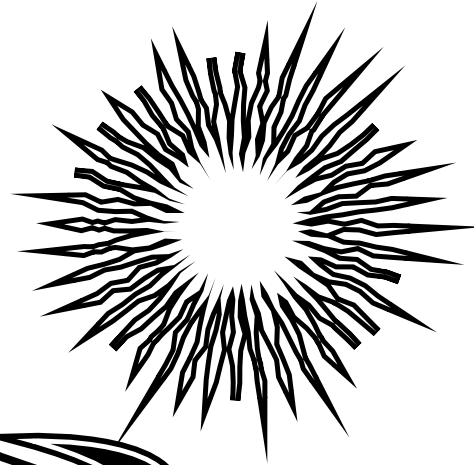
Space Traveller

Name: _____

Group: _____ Date: _____

Current age *Years:* _____ *Months:* _____

Average distance (from Earth)		hours = $\frac{\text{Distance}}{40{,}000}$ (nearest hour)	Days = $\frac{\text{Hours}}{24}$ (nearest day)	Months = $\frac{\text{Days}}{30}$ (nearest month)	Years = $\frac{\text{Month}}{12}$		Age calculated		Age estimated	
					Years	Months	Years	Months	Years	Months
150,000,000 *km*	Sun	3,750	156	5	0	5				
385,000 *km*	Moon	10	0	0	0	0				
92,000,000 *km*	Mercury	2,300	96	3	0	3				
41,000,000 *km*	Venus	1,025	43	1	0	1				
78,000,000 *km*	Mars	1,950	81	3	0	3				
629,000,000 *km*	Jupiter	15,725	655	22	1	10				
1,280,000,000 *km*	Saturn	32,000	1,333	44	3	8				
2,725,000,000 *km*	Uranus	68,125	2,839	95	7	11				
4,355,000,000 *km*	Neptune	108,875	4,536	151	12	7				
5,766,000,000 *km*	Pluto	144,150	6,006	200	16	8				
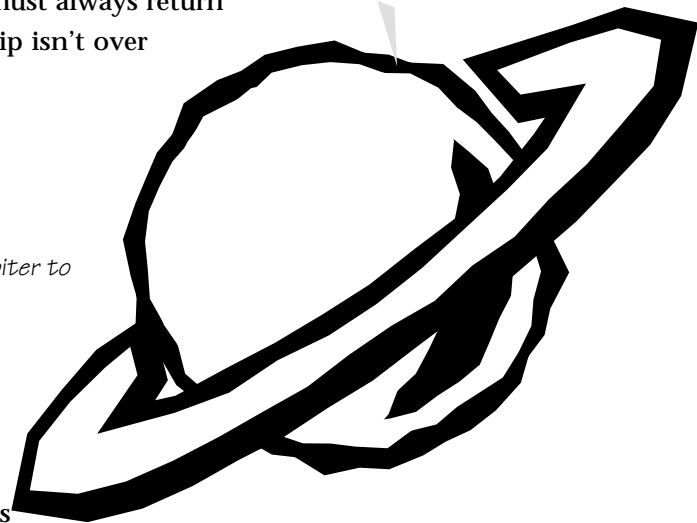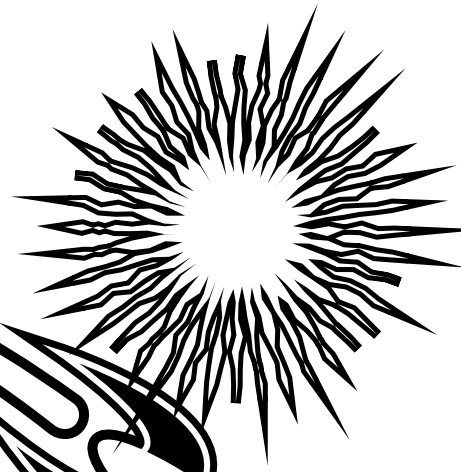
Special Delivery!

The Solar System Courier Service

Imagine that you work for the Solar System Courier Service.
You must determine how long it'll take to make a few deliveries
and return to Earth. Remember that the planets aren't aligned one behind
the other in their orbits around the Sun. So you must always return
to Earth to refuel between deliveries. Also, your trip isn't over
till you've returned to Earth.

1 Deliver communication systems to
   Mercury and Jupiter.

   Duration of trip: *4 years, 2 months*
   *(Earth to Mercury to Earth = 6 months; Earth to Jupiter to
   Earth = 3 years and 8 months)*

2 Deliver pizzas to Venus and Mars.

   Duration of trip: *8 months*
   *(Earth to Venus to Earth = 2 months; Earth to Mars
   to Earth = 6 months)*

3 You travel to an outer planet and an inner
   planet and then return to Earth. Your trip lasts
   about 7 years and 10 months. Which planets did you visit?

   Planetes : *Mercury and Saturn*

   Duration of trip: *7 years, 10 moths*
   (Earth to Mercury to Earth = 6 months; Earth to Saturn to Earth = 7 years and 4 months)

4 After leaving Neptune, you return to Earth and then deliver letters to Mars.

   Duration of trip: *13 years, 1 months*
   (Neptune to Earth = 12 years and 7 months; Earth to Mars to Earth = 6 months)

5 Invent a mystery journey to two planets. Don't forget you must always make a stop
   on Earth between planets. How long will your mystery journey last?

   Duration of trip: _____

Exchange your mystery journey brainteaser with a classmate and try to solve his or her brainteaser.