

The benefit of teamwork: the NASA exercise

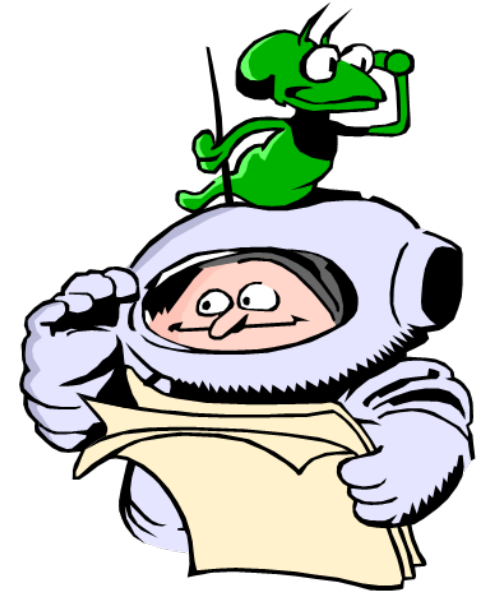


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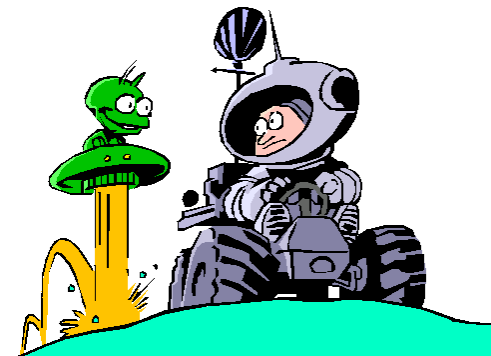
Actual Situation

- You are an astronaut shipwrecked on the moon
- The craft that can take you back to earth is 300 km away
- There are many items left in the shipwreck which are usefull



Your Task

- You want to reach the other craft. Before you leave you have to decide which items you will take with you: matches, compass, life raft, signal rockets, stove, medicamentation, water, iron ration, gun, ...
- Make a ranking from 1 (most important) to 15 (for no use)
 - firstly individually (document your ranking)
 - secondly as a result of a team discussion
- Prepare a short presentation of the group work about your chosen ranking (with explanations)
- Present your results to the NASA management





NASA exercise form

Person:		Scaling	Scaling	Scaling
Group:		Individual	Group	Experts
Match-box				
Star map				
Life raft				
Signal cartridges				
Nylon rope				
Solar stove				
First aid kit				
20 l of water				
Iron ration food				
2 guns				
magnetic compass				
milk powder				
parachute silk				
Oxygen tanks				
FM-receiver-transmitter				

Your Resources

- 15 minutes for individual ranking
- 45 minutes for group discussion and preparation of the presentation
- 5 minutes for presentation
- 1 exercise form
- 1 flip chart
- 2 markers



Rules for team-work

- Avoid to force your opinion upon the others. Argue with logic
- Avoid to be soft, just to achieve unanimity or to avoid conflicts. Just support other opinions, when they correspond with yours at least in some parts
- Avoid conflict solution technologies, e.g. majority voting, average calculations or cow trade (one hand washes the other)
- View deviate opinions as a useful contribution instead of feeling to be disturbed



Expert ranking

Ranking	Parts	Explanation
1	oxygen tanks	essential for breathing
2	20 liters of water	essential water supply
3	star map	essential for orientation
4	iron ration	food
5	FM-radio	emergency signal, potential connection to parent ship
6	nylon rope	for climbing and rescue of wounded
7	first aid kit	pills and injections are valuable
8	Parachute	shelter against sun
9	life raft	CO2 tanks for propulsion
10	signal cartridges	emergency signal at close distance
11	two guns	could be used for aggregates for propulsion
12	milk powder	food, can be mixed with water
13	Stove	useful only on the dark side of the moon
14	bearing	moon probably has no magnetic poles, useless
15	a box of matches	no use on the moon