

WORKSHEET “LOST ON THE MOON”

Explanation
we must give
our students

Imagine you are a space crewmember that originally should gather together with the mother spacecraft on the illuminated part of the moon. Due to technical difficulties, your spacecraft was obliged to land on the moon but 150 km away from the planned meeting point with the mother spacecraft. You must choose from several available materials the most necessary ones for the 150 km journey.

Below there is a list of 15 elements that remained intact without breaking down after landing on the moon. Your task consists of putting it in order of necessity so that your crew can reach the meeting point. Put number 1 before the most necessary stuff, number 2 before the following one, and like that with the rest until you get to number 15, the least needed stuff.

These is the stuff you have at your disposal:

1. Box of matches
2. Food concentrate
3. 25 m of nylon rope
4. Parachute silk
5. Portable heating unit
6. 2 calibre 45 pistols
7. One box of dehydrated milk
8. 2 tanks of 100 liters of oxygen
9. Map of stars of the moon constellation
10. Life bag
11. Magnetic compass
12. 10 liters of water
13. Flame lights to signal
14. First-aid kit with injection needles
15. A transistor-radio FM that works with sun energy

EXPLANATION	CORRECT NUMBER
<ul style="list-style-type: none"> No oxygen. 	15 Box of matches.
<ul style="list-style-type: none"> You can live without food for some time. 	4 Food concentrate.
<ul style="list-style-type: none"> Move on irregular terrain. 	6 twenty-five m of nylon rope.
<ul style="list-style-type: none"> Transport. 	8 Parachute silk.
<ul style="list-style-type: none"> The illuminated part of the moon is hot. 	13 Portable heating unit.
<ul style="list-style-type: none"> Kind of useful for propulsion. 	11 two calibre 45 pistols.
<ul style="list-style-type: none"> Requires water. 	12 One box of dehydrated milk.
<ul style="list-style-type: none"> No air on the moon. 	1 two tanks of 100 liters of oxygen.
<ul style="list-style-type: none"> Necessary to guide themselves. 	3 Map of stars of the moon constellation.
<ul style="list-style-type: none"> Certain value for getting protection or carrying things. 	9 Life bag.
<ul style="list-style-type: none"> The magnetic field on the moon is different to that on the earth. 	14 A magnetic compass.
<ul style="list-style-type: none"> You cannot live long without water. 	2 ten liters of water.
<ul style="list-style-type: none"> No oxygen. 	10 Flame lights to signal
<ul style="list-style-type: none"> First-aid kit may be necessary. Needles can be required. 	7 First-aid kit with injection needles.
<ul style="list-style-type: none"> Communication. 	5 A transistor-radio FM that works with sun energy.