

Lost at Space

Topic: OAS (Outdoor Survival)

Age: Cubs (8-10), Scouts (11-14), & Venturers (15-17)

You will need:

- *Lost at Space* item sheet (attached)
- *Lost at Space* instructor guide (attached)
- Adequate space to work (indoor or outdoor)
- (Optional) Paper & pens for note taking purposes

Safety Considerations: This activity can be done stationary therefore overall risk is low, however if movement element is required (e.g. scavenger hunt for the items first) ensure youth have closed toe shoes and exercise caution to avoid potential injuries.

Activity Description: Blast off! You were aboard a space ship when all of a sudden it crashed, you survived but now you must endure the rough conditions that space has to offer, with only a few items.

Instructions:

1. Read over the scenario, ensure that ALL the details are read and understood.
2. Give out the printouts (1 printout : 6 youth) so the youth can have a visual of the items.
3. Check with the youth and give any hints if they are having difficulty. If, they are not correct they can revise and try again.
4. When they are all correct, read over the reasoning provided in the "Scenario Sheet"
5. Clean up!

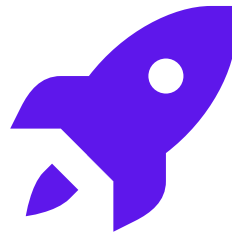
Discussion Questions:

- If you do end up lost, what should you do? (S.T.O.P.: STOP where you are, THINK what has happened. OBSERVE your surrounding, PREPARE your survival materials.)
- What are some essentials you should have in a survival kit?
- How do astronauts stay safe while up in space?

Additional Resources:

- <https://www.therusticelk.com/25-survival-skills-for-kids/>
- <https://dontdieinthewoods.com/blogs/survival-tips/teaching-kids-survival-skills>
- https://www.nasa.gov/pdf/162514main_Human_Needs.pdf

LOST AT SPACE SCENARIO



Survival Scenario #3

YOU ARE A MEMBER OF A SPACE CREW ORIGINALLY SCHEDULED TO RENDEZVOUS WITH A MOTHER SHIP ON THE LIGHTED SURFACE OF THE MOON. HOWEVER, DUE TO MECHANICAL DIFFICULTIES, YOUR SHIP WAS FORCED TO LAND AT A SPOT SOME 100KM FROM THE RENDEZVOUS POINT. DURING REENTRY AND LANDING, MUCH OF THE EQUIPMENT ABOARD WAS DAMAGED AND, SINCE SURVIVAL DEPENDS ON REACHING THE MOTHER SHIP, THE MOST CRITICAL ITEMS AVAILABLE MUST BE CHOSEN FOR THE 100KM TRIP. BELOW ARE LISTED THE 14 ITEMS LEFT INTACT AND UNDamaged AFTER LANDING.

AMONG THE WRECKAGE YOU HAVE MANAGED TO KEEP THE FOLLOWING 14 ITEMS:

1. BOX OF MATCHES
2. FOOD CONCENTRATE
3. 40M NYLON ROPE
4. PARACHUTE SILK
5. PORTABLE HEATING UNIT
6. 1 CASE DEHYDRATED MILK
7. 100LB TANK OF OXYGEN
8. STELLAR MAP
9. SELF-INFLATING LIFE RAFT
10. MAGNETIC COMPASS
11. 5L OF WATER
12. SIGNAL FLARES
13. FIRST AID KIT WITH INJECTION NEEDLE
14. SOLAR POWERED FM RECEIVER/TRANSMITTER

IT IS YOUR JOB TO DETERMINE THE ORDER OF IMPORTANCE OF THE ITEMS AS WELL AS THEIR USES, GOOD LUCK!

LOST AT SPACE SCENARIO



1: 100LB TANK OF OXYGEN

MOST PRESSING SURVIVAL NEED (WEIGHT IS NOT A FACTOR SINCE GRAVITY IS ONE-SIXTH OF THE EARTH'S -- EACH TANK WOULD WEIGH ONLY ABOUT 17 LBS. ON THE MOON).

2: 5L OF WATER

NEEDED FOR REPLACEMENT OF TREMENDOUS LIQUID LOSS ON THE LIGHT SIDE.

3: STELLAR MAP

PRIMARY MEANS OF NAVIGATION - STAR PATTERNS APPEAR ESSENTIALLY IDENTICAL ON THE MOON AS ON EARTH.

4: FOOD CONCENTRATE

EFFICIENT MEANS OF SUPPLYING ENERGY REQUIREMENTS.

5: SOLAR POWERED FM RECEIVER/TRANSMITTER

FOR COMMUNICATION WITH MOTHER SHIP (BUT FM REQUIRES LINE-OF SIGHT TRANSMISSION AND CAN ONLY BE USED OVER SHORT RANGES).

6: 40M NYLON ROPE

USEFUL IN SCALING CLIFFS AND TYING INJURED TOGETHER.

7: FIRST AID KIT WITH INJECTION NEEDLE

NEEDLES CONNECTED TO VIALS OF VITAMINS, MEDICINES, ETC. WILL FIT SPECIAL APERTURE IN NASA SPACE SUIT.

8: PARACHUTE SILK

PROTECTION FROM THE SUN'S RAYS.

9: SELF INFLATING LIFE RAFT

BOTTLE IN MILITARY RAFT MAY BE USED FOR PROPULSION.

10: SIGNAL FLARES

USE AS DISTRESS SIGNAL WHEN THE MOTHER SHIP IS SIGHTED.

LOST AT SPACE SCENARIO



Survival Scenario #3

11: 1 CASE DEHYDRATED MILK

BULKIER DUPLICATION OF FOOD CONCENTRATE.

12: PORTABLE HEATING UNIT

NOT NEEDED UNLESS ON THE DARK SIDE.

13: MAGNETIC COMPASS

THE MAGNETIC FIELD ON THE MOON IS NOT POLARIZED, SO IT'S WORTHLESS FOR NAVIGATION.

14: BOX OF MATCHES

VIRTUALLY WORTHLESS -- THERE'S NO OXYGEN ON THE MOON TO SUSTAIN COMBUSTION.



Box of matches



Food concentrate



40m nylon rope



Parachute silk



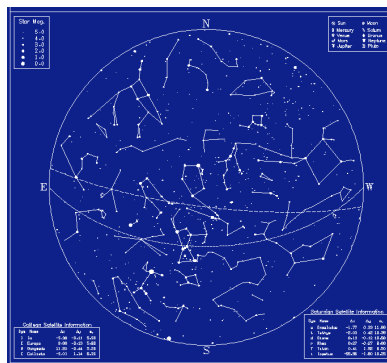
Portable heating unit



One case dehydrated milk



100lb tank of oxygen



Stellar map



Self inflating life-raft



Magnetic compass



8L of Water



Signal flares



First aid kit with
injection needle



Solar powered fm
receiver/transmitter