

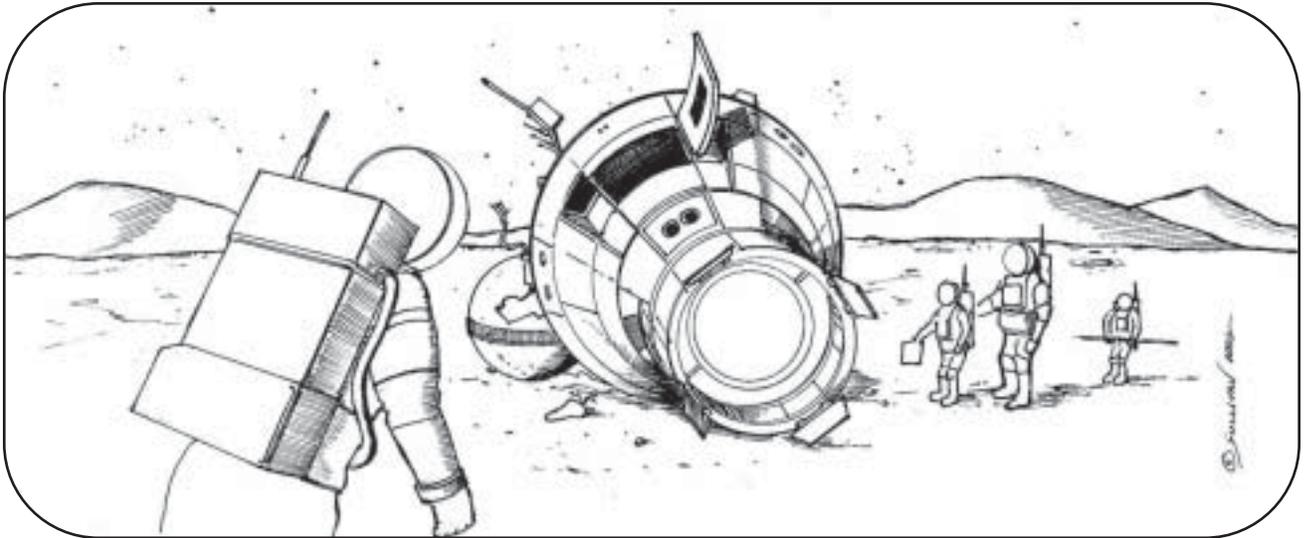
Crash Landing!



ADAPTED BY SUZANNE CHIPPINDALE

From *The Space Age Activity Guide*, © 1992 QED Communications Inc., and several earlier NASA sources

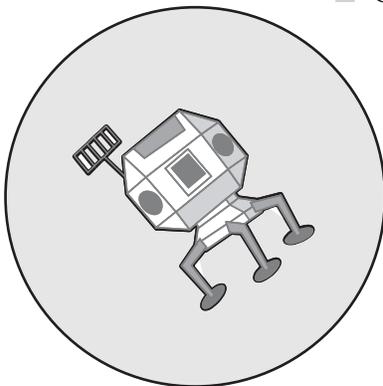
An Activity for the Whole Family from Project ASTRO™



Imagine a time in the future when there are lunar bases. People are living and working on Moon, exploring and learning about it, and doing other kinds of research that can't be done on Earth.

On a routine journey from Earth to a lunar base, there is an accident. Something has gone wrong and you crash land on the Moon's surface, sixty miles from the nearest base. It is daylight on the Moon and will be for the next few days. In the Moon's lower gravity, that is not too far to walk, but you are limited in what you can carry. What should you take with you?

Your Mission

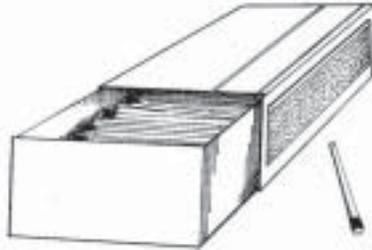


- Cut out the list of attached items.
- Sort them into 2 groups: items you would take with you and things you would leave.
- Put the ones you would take with you in order of usefulness, from essential-for-survival to not-so-important.
- Once you've come to an agreement within your group, use the glue stick to attach your items to each sheet.

Crash Landing!

List of recovered items to cut out

Box of Matches



These might be useful to make a signal fire or camp fire in case of a crash on Earth, but would they be useful on the Moon?

Two 100 Pound Tanks of Oxygen



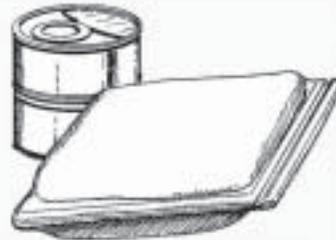
These tanks would weigh 100 pounds on Earth, but in the Moon's lighter gravity, they would weigh less than 17 pounds each.

Magnetic Compass



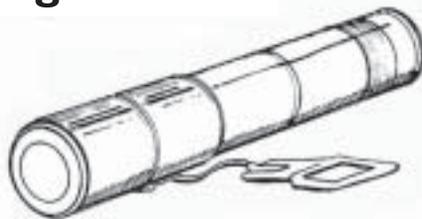
True North on Earth varies from magnetic North by as much as 23 degrees. How well could you navigate on the Moon with this?

Food Concentrate



Astronaut food is notoriously bad, but light weight and compact. Just add water and that bowl of mush could taste like a pot roast.

Self-Igniting Signal Flare



This flare could work underwater or in the vacuum of space.

Solar-Powered FM Transceiver

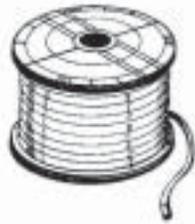
This radio transmitter and receiver requires only sunlight to function properly.



Crash Landing!

List of recovered items to cut out

50 Feet of Nylon Rope



Nylon rope is tough and light weight.

Moon Constellation Map



Navigating by the stars on the Moon would be very much the same as navigating by the stars on Earth.

Portable Heating Unit



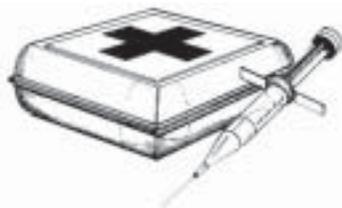
This unit is designed to work on its own batteries with no external power source.

5 Gallons of Water



Water is essential to life and to reconstituting dehydrated food

First Aid Kit with Hypodermic Needles



Hypodermic needles fit special openings in the standard issue space suit.

Self-inflating Life Raft that uses a Carbon Dioxide Canister



This raft is standard issue on shuttles that land on Earth, in case of an emergency water landing.

Crash Landing!

Items to keep (Not necessarily 6; keep as many or as few as you would find useful.)

Crash Landing!

Items to leave (Not necessarily 6; leave as many or as few as you would not find useful.)