

# THE ELEMENTS OF LIVING ON MARS

## 1 POWER

ATMOSPHERE —  $\begin{matrix} \text{C} & \text{O} \\ \text{N} \end{matrix}$  CARBON DIOXIDE  
NITROGEN

SOLAR POWER

**TECH**  
 $\text{C}$

**TECH**  
SPACE ELEVATOR

Going Up!  
 $\text{C}$

**TECH**  
ROCKET SCIENCE  
 $\text{H O}$

Shields Up!  
**TECH** RADIATION SHIELD  
 $\text{C H}$

## PROTECTION 2

**TECH**  
ROBOTS

Build!

## 3 PRODUCTION

SOIL —  $\begin{matrix} \text{Fe} & \text{O} \\ \text{H} & \text{O} \\ \text{S} \\ \text{Si} \end{matrix}$  RUST  
ICE  
SULFUR  
SILICON

**TECH**  
ELECTROLYSIS  
PHOTOSYNTHESIS  
MICROORGANISMS

Live!

**TECH** 3D PRINTER  
MOLECULAR PRINTER

WATER	$\text{H O}$
AIR	$\text{C N O}$
FOOD	$\text{C H N O}$
TOOLS	$\text{Fe Si C}$ (STEEL, MICROCHIPS)
MEDICINE	$\text{C H N O S}$ (PENICILLIN)
	$\text{C H O}$ (ALCOHOL)