

# Parts of a Spacesuit

## Helmet

- Has a hard shell to protect against space debris.
- Has lamps for light to see in the dark.
- Has special glass to keep out harmful Sun rays.
- Has a microphone and listening piece for communication.

## Nose Scratcher, Foodbar & Drinking Bag

- Has a hard shell to protect against space debris.
- Has lamps for light to see in the dark.
- Has special glass to keep out harmful Sun rays.
- Has a microphone and listening piece for communication.

## Gloves

- Have layers to protect against space debris and keep astronaut warm or cool.
- Bend for working.

## Urine Collection Device

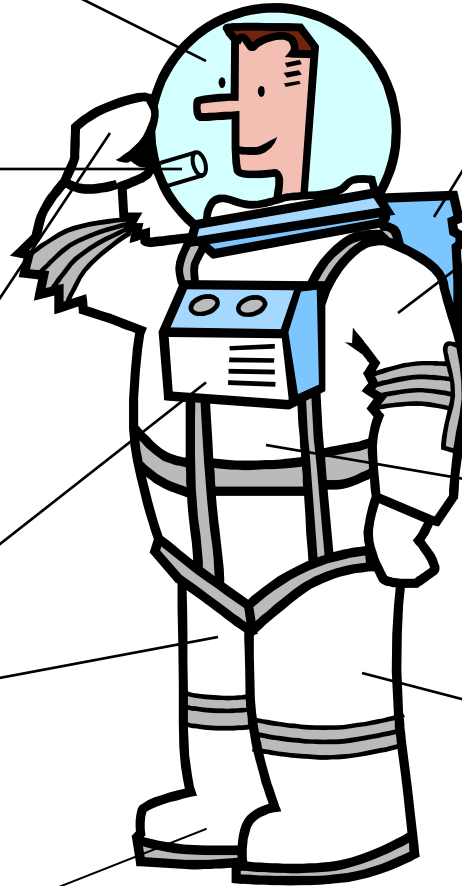
- Is like a diaper for adults.

## Control Panel

- Has buttons for power and monitoring all spacesuit functions.

## Space Boots

- Are airproof and insulated to protect feet.
- Have special bottoms depending where astronauts will walk.



## Life Support System

- Has oxygen tanks, power battery, radio, chemical to clean and recycle exhaled gas and device to get rid of excess heat.
- Can be built into the spacesuit or attached to spacecraft by hoses.

## Thermal and Micro Meteoroid Garment (TMG)

- Made of many layers to protect astronaut from extreme temperature, space debris, radiation and chemicals on spacecraft.
- Hard surface protects against high pressure and tears in the spacesuit.

## Temperature Control Garment

- Looks like long underwear.
- Carries away heat and returns exhaled gases.

## Pressure Control Garment

- Consists of two layers: one to hold the gas in and one to hold the shape of the suit while pressurized.
- All parts must connect with air tight seals and provide mobility when the suit is pressurized.
- Elbow and knee joints have extra material outside the suit to make movements easier.