

SYSTEM CHEAT SHEET

COLLATED BY JUSTIN ALEXANDER

http://www.thealexandrian.net

BASIC MECHANICS

Success Test: d% ≤ Skill Rating + Modifiers

Opposed Test: Higher success wins; if both fail deadlock results

(crit success trumps normal success)

MODIFIERS

Maximum Modifier: +/- 60

Default to Aptitude: No penalty Default to Related Skill: -30 penalty

Teamwork: +10 per helper, max +30 **Trying Again:** -10 per attempt

Simple Success Test:

Strong Success: d% ≤ Target Weak Success: d% > Target

Extra Time

Quick/Complex: +1 minute = +10
Task Actions: +50% time = +10

Complementary Skill

01-30 = +10 31-60 = +2061+=+30 00 = auto success / 99 = auto failure

Critical: Both dice have same digit

Margin of Success = # rolled Margin of Failure = # rolled - target

Excellent Success = MoS > 30 Exceptional Success = MoS > 60 Severe Failure = MoF > 30 Horrific Failure = MoF > 60

TYPES OF ACTIONS

Automatic = "Always on"

Quick = Multiple per turn

Complex = 1 per action phase

Task = Specified timeframe, reduced by 10% for each 10 points of MoS

TEST DIFFICULTY	
DIFFICULTY LEVEL	MODIFIER
Effortless	+30
Simple	+20
Easy	+10
Average	+0
Difficult	-10
Challenging	-20
Hard	-30

MODIFIER SEVERITY	
MODIFIER	
+/- 10	
+/- 20	
+/- 30	

SPENDING 1 MOXIE

- Before the roll, ignore all negative modifiers on a single test.
- Flip-flop d100 result (83 becomes 38).
- Upgrade success to critical success.
- Treat critical failure as regular failure.
- Go first in an Action Phase.

YOUR MUSE AND YOU

Your muse can:

- Make Research tests to find information for you.
- Falsify or fluctuate your mesh ID.
- Scan newsfeeds and mesh updates for keyword alerts.
- Monitor your mesh inserts/ecto/PAN and slaved devices for intrusion.
- Teleoperate and command robots.
- Launch countermeasures against intruders.
- Monitor your rep scores and alert you to drastic changes.
- Automatically provide feedback for other people's rep scores.
- Run audio input through an online, real-time language translation system.
- Put you in privacy mode and/or proactively stealth your wireless signal.
- Track people for you.
- Anticipate your needs and act accordingly, pre-empting your requests.

COMMON AI

Standard Muse: Aptitudes: 10, INT 20. Skills: Academics: Psychology 60, Hardware: Electronics 30, Infosec 30, Interface 40, Professional: Accounting 60, Programming 20, Research 30, Perception 30 + 3 Knowledge skills at 40

Bot/Vehicle AI: Aptitudes: 10, REF 20. Skills: Hardware: Electronics 20, Infosec 20, Interests: [Bot/Vehicle] Specs 80, Interface 40, Research 20, Perception 40, Pilot: [appropriate field] 40.

Kaos AI: Aptitudes: 10, REF 20. Skills: Hardward: Electronics 40, Infosec 40, Interface 40, Professional: Security Systems 80, Programming 40, Research 20, Perception 30 + 1 weapon skill at 40

Security AI: Aptitudes: 10. Skills: Hardware: Electronics 30, Infosec 40, Interface 40, Professional: Security Systems 80, Programming 40, Research 20, Perception 30 + 1 weapon skill at 40

LEARNED SKILL RANGES

Cognition (COG) – Problem-solving, logical analysis, understanding, memory, recall.
Coordination (COO) – Manual dexterity, fine motor control, nimbleness, balance.
Intuition (INT) – Gut instincts and on-the-fly evaluation. Physical awareness, cleverness, cunning.
Reflexes (REF) – Reaction time, gut-level response, thinking fast.
Savvy (SAV) – Mental adaptability, social intuition, social awareness and manipulation.
Somatics (SOM) – Pushing morph to best of its physical ability. Use of strength, endurance, motion.
Willpower (WIL) – Self-control, ability to command your own destiny.

SKILL EQUIVALENCE

- No exposure or familiarity, completely unskilled. 00
- Very rudimentary knowledge.
- 20 Basic operator's proficiency (driver's license, gun permit, high school diploma)
- 30 Hands-on experience, some professional training.
- 40 Basic professional certification (police driving, army rifle certified, advanced training)
- 50 Experience from professional-level work, some advanced training.
- 60 Expert competence.
- 70 Experience from expert-level work. Has unique insights/innovations.
- 80 Worthy of being system-renowned authority on the subject.
- 90 Nobel/Olympic/grandmaster.

SKILLS

Academics: [Field]	COG	Knowledge
Archaeology, Astrobiology,	, Astron	omy, Astrophysics,
Astrosociology, Biochemistry	, Biology	, Botany, Computer
Science, Cryptography, Econ	nomics, E	Ingineering, Genetics,
Geology Linguistics,	Mathem	natics, Memetics,
Nanotechnology, Old Eart	h History	y, Physics, Political
Science, Psychology, S	Sociology,	Xenoarchaeology,
Xenolinguistics, Zoology		
Animal Handling	SAV	Active, Social
Art: [Field]	INT	Knowledge

Architecture, Criticism, Dance, Drama, Drawing, Painting, Performance, Sculpture, Simulspace Design, Singing, Speech, Writing

Beam Weapons	COO	Active, Combat
Blades	SOM	Active, Combat
Climbing	SOM	Active, Physical
Clubs	SOM	Active, Combat
Control	WIL*	Active, Mental, Psi
Deception	SAV	Active, Social
Demolitions	COG*	Active, Technical
Disguise	INT	Active, Physical
Exotic Melee Wpn: [Field]	SOM	Active, Combat
Exotic Ranged Wpn: [Field]	COO	Active, Combat
Flight	SOM	Active, Physical
Fray	REF	Active, Combat
Free Fall	REF	Active, Physical
Freerunning	SOM	Active, Physical
Gunnery	INT	Active, Combat

Hardware: [Field]	COG	Active, Te	chnical
Aerospace, Armorer,	Electronics,	Groundcraft,	Implants,
Industrial, Nautical, Re	obotics		
Impersonation	SAV	Active, So	cial
Infiltration	COO	Active, Ph	ysical
Infosec	COG ³	* Active, Te	chnical

Interest: [Field] Knowledge Ancient Sports, Celebrity Gossip, Conspiracies, Factor Trivia, Gambling, Hypercorp Politics, Lunar Habitats, Martian Beers, Old Earth Nation-States, Reclaimer Blogs, Science Fiction, Scum Drug Dealers, Spaceship Models, Triad Economics, Underground XP

COG

Interfacing	COG	Active, Technical
Intimidation	SAV	Active, Social
Kinesics	SAV	Active, Social
Kinetic Weapons	COO	Active, Combat
Language: [Field]	INT	Knowledge
Arabic, Cantonese,	English, French,	Hindi, Japanes

Mandarin, Portugese, Russian, Spanish

Medicine: [Field] Active, Technical COG Biosculpting, Exotic Biomorphs, Gene Therapy, General Practice, Implant Surgery, Nanomedicine, Paramedic, Pods, Psychiatry, Remote Surgery, Trauma Surgery, Uplifts (by type), Veterinary

Navigation Active, Mental INT Networking: [Field] SAV Active, Social

Autonomists (@-rep), Criminals (g-rep), Ecologists (e-rep), Firewall (i-rep), Hypercorps (c-rep), Media (f-rep), Scientists (r-rep)

Palming	COO	Active, Physical
Perception	INT	Active, Mental
Persuasion	SAV	Active, Social
Pilot: [Field]	REF	Active, Vehicle
A . C. A .1 C /TT/7 11	\ T	171:1 0 1

Aircraft, Anthroform (Walkers), Exotic Vehicle, Groundcraft, Spacecraft, Watercraft

Profession: [Field] COG Knowledge Accounting, Appraisal, Asteroid Prospecting, Banking, Cool Hunting, Con Schemes, Distribution, Forensics, Lab

Technician, Mining, Police Procedures, Psychotherapy, Security Ops, Smuggling Tricks, Social Engineering, Squad Tactics, Viral Marketing, XP Production

Programming COG* Active, Technical Protocol SAV Active, Social Psi Assault WIL* Active, Mental, Psi Psychosurgery INT Active, Technical Research COG Active, Technical Scrounging INT Active, Mental Seeker Weapons COO Active, Combat Sense INT* Active, Mental, Psi Spray Weapons COO Active, Combat **Swimming** SOM Active, Physical Throwing Weapons COO Active, Combat **Unarmed Combat** SOM Active, Combat

^{*} No defaulting.

COMBAT

ACTION TURN

Step 1: Roll Initiative. (1d10 + Initiative) (INT + REF ÷ 5)

Step 2: Begin First Action Phase (Speed 1)

Step 3: Declare and Resolve Actions (Highest Initiative First)

Step 4: Start Next Action Phase (Speed 2-4)

MOVEMENT

(Quick Action, divided between all action phases)

Walk: 4 meters per turn **Run**: 20 meters per turn, -20 to physical actions

ATTACKS

ATTACK CHECK:

Attack skill + modifiers vs. Defense check + modifiers

Exceptional Success: DV +5
Exceptional Success: DV +10
Critical Success: Armor does not apply

DEFENSE

Melee (Automatic Action): Fray skill Ranged (Automatic Action): ½ Fray skill Psi (Automatic Action): WIL x 2

Full Defense (Complex Action): +30 modifier, can use Freerunning or Fray

SURPRISE

Infiltration vs. Perception test (-20 penalty to Perception unless actively on guard)

Failure: Attackers receive free Action Phase. **Success:** Roll initiative normally. Ambushed characters suffer -3 penalty to initiative.

COMBAT STATS

DV: Damage Value AV: Armor Value AP: Armor Penetration WT: Wound Threshold TT: Trauma Threshold

ARMOR

ARMOR VALUE: Energy/Kinetic

(Armor 5/10 is AV 5 vs. energy-based attacks, AV 10 vs. kinetic attacks)

Layered Armor: Add armor ratings together to maximum value of Durability. -20 modifier to physical actions per layer (although armor accessories and armor inherent to morph do not count).

PHYSICAL DAMAGE

(DV + modifiers) - (AV - AP)

Thrown/Melee Weapon: Add SOM ÷ 10 to DV.

UNCONSCIOUS: Damage > Durability BIOMORPH DEATH: Damage > Durability x 1.5 SYNTHMORPH DEATH: Damage > Durability x 2

> Damage > WT = 1 Wound Damage > WT x 2 = 2 Wounds, etc.

MENTAL DAMAGE

CATATONIC: Stress > Lucidity **INSANITY:** Stress > Lucidity x 2

Damage > TT = 1 Trauma $Damage > TT \times 2 = 2 Trauma, etc.$

WOUNDS

-10 modifier to actions, -1 Init per wound

KNOCKDOWN: When taking a wound, SOM x 3 test or knocked down.

- Quick Action to stand up.
- Bots / Vehicles make Pilot test to avoid crash.

UNCONSCIOSNESS: When taking 2+ wounds, SOM x 3 test or knocked out.

• Bots/Vehicles automatically crash.

BIOMORPH BLEEDING: If Damage > Durability and biomorph has a wound, they incur 1 damage per turn until they receive medical care or die.

TRAUMA

-10 modifier to actions, -1 Init per trauma

DISORIENTATION: When taking a trauma, WIL x 3 test or become disoriented.

• Complex Action to reorient.

DERANGEMENTS (pg. 210): Suffer new minor derangement or upgrade previous derangement (minor to moderate; moderate to major; major to disorder) for each trauma suffered.

COMBAT MODIFIERS

GENERAL	MODIFIER
Character using off-hand	-20
Character has superior position	+20
Target: Small (child-sized)	-10
Target: Very Small (mouse or insect)	-30
Target: Large (car-sized)	+10
Target: Very Large (side of a barn)	+30
Visibility Impaired: Minor (glare, light smoke, dim light)	-10
Visibility Impaired: Major (heavy smoke, dark)	-20
Visibility Impaired: Blind Attack	-30
RANGED	MODIFIER
Attacker using smartlink / laser sight	+10
Attacker using smartlink / laser sight	+10
Attacker using smartlink / laser sight Attacker behind cover	+10 -10
Attacker using smartlink / laser sight Attacker behind cover Attacker in melee combat	+10 -10 -30
Attacker using smartlink / laser sight Attacker behind cover Attacker in melee combat Defender has minor cover	+10 -10 -30 -10
Attacker using smartlink / laser sight Attacker behind cover Attacker in melee combat Defender has minor cover Defender has moderate cover	+10 -10 -30 -10 -20
Attacker using smartlink / laser sight Attacker behind cover Attacker in melee combat Defender has minor cover Defender has moderate cover Defender has major cover	+10 -10 -30 -10 -20 -30
Attacker using smartlink / laser sight Attacker behind cover Attacker in melee combat Defender has minor cover Defender has moderate cover Defender has major cover Defender prone and far (10+ meters)	+10 -10 -30 -10 -20 -30 -10

MOVEMENT OPTIONS

-10

-20

-30

Charging: Run and melee attack in same round.

- Effect of Charge: -10 modifier for running, +1d10 damage
- Receiving Charge: Delay action to receive +20 modifier to hit someone charging you.

Climb (Task Action): Climbing check, 1 meter per turn.

Jump (Complex Action): Round all results up.

- Running Jump: SOM ÷ 5 meters
- Standing Jump: SOM ÷ 20 meters
- Vertical Jump: 1 meter

Medium Range

Extreme Range

Long Range

• Freerunning: +1 meter (running) or +0.25 meters (standing) per 10 points of MoS.

Rappelling (Task Action): Climbing check, 50 meters per turn

Sprint (Complex Action): Freerunning check, +1 meter per 10 points of MoS (max +5)

Swimming: 1/4 speed, -20 penalty to physical skills

Gravity:

- Microgravity: Climb, pull, or push at ½ movement.
- Low Gravity: Jump twice as far. Run at x1.5.
- High Gravity: Treat as 1 wound per 0.2g about 1g.

COMBAT OPTIONS

COMBAT OPTIONS

FIRING MODES

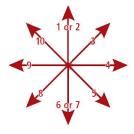
- SINGLE SHOT (SS): 1 shot per Complex Action
- SEMI-AUTOMATIC (SA): 2 shots per Complex Action
- BURST FIRE (BF): Uses 3 shots of ammunition.
 - o 1 Target: +1d10 DV or +10 attack modifier
 - o 2 Targets: Within 1 meter of each other.
- FULL AUTOMATIC (FA): Uses 10 shots of ammunition
 - o Single Target: +3d10 or +30 attack modifier
 - o 2-3 Targets: Within 1 meter of each other.
- SUPPRESSIVE FIRE (FA): Uses 20 shots of ammunition
 - o Cone with widest diameter up to 20 meters.
 - o 1 free attack against any character not behind cover or immediately seeking cover.

RELOAD

Complex Action

SCATTER

Direction: Roll d10.



Distance: 1d10 meters.
Severe Failure = x2

Horrific Failure = x3

SHOCK

Target makes DUR + Energy Armor test

Failure: Fall down and incapacitated for 1 round per 10 MoF. After recovery, -30 penalty to all actions. (Reduce penalty by 10 per minute).

Success: Suffer $1\!\!\!/ 2$ DV and -30 penalty until next action turn. (Reduce penalty by 10 per turn.)

ATTACK OPTIONS

AIMED SHOT:

- Sacrifice All Quick Actions: +10 modifier on attack.
- Sacrifice Complex Action: +30 bonus on next attack.

AREA EFFECT:

- Blast Effect: -2 damage per meter from blast center.
- **Uniform Blast:** Full damage within blast sphere. -2 damage per meter outside sphere.
- Cone Effect
 - o Short Range: 1 target, +1d10 damage.
 - o Medium Range: 2 targets
 - o Long/Extreme Range: 3 targets, -1d10 damage

BEAM EFFECT:

- Sweeping Fire: Missed shot with semi-auto beam weapon is treated as a free aim action (+10 modifier) on second attack against same target.
- Concentrated Fire: After successful hit, sacrifice second attack to increase DV x 1.5 (round up).

BEAM EFFECT:

- **Sweeping Fire**: Missed shot with semi-auto beam weapon is treated as a free aim action (+10 modifier) on second attack against same target.
- Concentrated Fire: After successful hit, sacrifice second attack to increase DV x 1.5 (round up).

BLIND ATTACK: Resolves as a Moxie test (no modifiers).

- **Secondary Sense**: Make Perception test to attack normally with -30 modifier.
- **Indirect Fire:** With a potter, make attack normally with -30 modifier.
- Laser Targeting: As Complex Action, spotter paints target with a laser sigh. Attack can be made with a seeker weapon at no penalty.

CALLED SHOT: -10 modifier on attack. With excellent success, achieve called effect.

- Bypass Armor: Target's armor does not apply.
- **Disarming:** ½ damage. SOM x 3 test (-30 modifier) or drop held item.
- Specific Targeting: GM-determined result.

GRAVITY: Divide maximum weapon ranges by gravity.

ATTACK OPTIONS

GRENADES/SEEKERS: Subject to scatter on a miss.

- **Jumping On** (Complex Action): REF + COO + WIL test. Suffer +1d10 damage; reduces damage to other characters by armor + 10.
- Throwing Back (Complex Action): REF + COO + WIL
- Triggers
 - o Airburst/Impact: Resolve immediately.
 - o Signal: Detonate when signal is received.
 - o *Timer*: Detonates on user's Initiative score. 1 action phase per second (minimum 1 second).

KNOCKDOWN / KNOCKBACK:

- 1 meter per 10 MoS.
- Knockdown requires MoS 30+.
- Normal damage on critical success.

MULTIPLE TARGETS: -20 penalty per additional target.

REACH: +10 modifier to attacking/defending in melee.

SUBDUAL: If $MoS \ge target$'s DUR, target is subdued. Cannot take most physical actions.

- **Breaking Free** (Complex Action): Opposed Unarmed Combat test or opposed SOM x 3 test. Subdued character suffers -30 penalty.
- Minor Physical Actions: -30 penalty

TOUCH-ONLY: +20 bonus to melee attack

TWO-HANDED ATTACKS:

- Extra Melee Weapons: +1d10 DV per weapon (max. +3d10), +10 defense per weapon (maximum +30).
- Extra Ranged Weapons: -20 penalty per additional weapon.
- Off-Hand: -20 penalty
- Two-Handed Weapons: -20 penalty if wielded in one hand

BIOMORPH HEALING

MEDICAL CARE: Medicine: [field appropriate] test.

- Success: Heal 1d10 damage and 1 wound
- Each injury can be treated only once.

SURGERY: At GM discretion, serious wounds may require Medicine: [field appropriate] test.

- Task action (1-8 hours)
- *Success*: Heal 1d10 damage and 1 wound, continue healing normally thereafter.

NATURAL HEALING: Character must heal all damage before healing wounds.

SYNTHMORPH REPAIR

PHYSICAL REPAIR: Hardware: [field appropriate] test.

- Task action (2 hours per 10 points of damage, 8 hours per wound)
- -10 modifier per wound

MENTAL HEALING

TRAUMA: Trauma cannot be healed by any means until stress has been removed.

PSYCHOTHERAPY CARE: Medicine: [field appropriate] test.

- Task action (1 hour per stress, 8 hours per trauma, 40 hours per disorder)
- -10 penalty per disorder
- +30 successful psychosurgery
- *Success*: Remove stress or trauma. When trauma is removed, associated derangement is eliminated or downgraded.

NATURAL HEALING: WIL x 3 test once per month.

• Success: Heal 1d10 stress or 1 trauma.

DISORDER RECOVERY: WIL test after 3 months without stress or trauma.

PSYCHOSURGERY: Psychosurgery vs. patient's WIL x 3

- Task action (variable)
- Both Succeed (Psychosurgeon Higher): Temporary. 1 week per 10 points of MoS.
- Procedures: See pg. 231-232.

HEALING EQUIPMENT

HEALING VATS (pg. 327): See *Healing Vat* chart.

MEDICHINES (pg. 308): See Healing chart.

- Ignore effects of 1 wound.
- Filter most diseases, drugs, toxins (not nanodrugs or nanotoxins).
- If character suffers 5+ wounds at once or 6+ wounds within an hour, medichines will place them in medical stasis and send emergency call.
- Grants synthmorphs natural healing.

NANO-BANDAGES (pg. 333): See Healing chart.

REPAIR SPRAY: Repairs synthmorphs, vehicles, or other common objects.

• 1d10 damage per 2 hours

HEALING		
CHARACTER SITUATION	DAMAGE HEALING RATE	WOUND HEALING RATE
Character without basic biomods	1d10 (5) per day	1 per week
Character with basic biomods	1d10 (5) per 12 hours	1 per 3 days
Character using nanobandage	1d10 (5) per 2 hours	1 per day
Character with medichines	1d10 (5) per 1 hour	1 per 12 hours
Poor conditions (bad food, not enough rest/heavy activity, poor shelter and/or sanitation)	double timeframe	double timeframe
Harsh conditions (insufficient food, no rest/strenuous activity, little or no shelter and/or sanitation)	triple timeframe	no wound healing

HEALING VAT		
INJURY	HEALING TIME	
Healing normal damage to a character who has taken 3 or fewer wounds.	2 hours per wound (min. 1 hour for 0 wounds)	
Restoring major lost body parts like arms or legs, or healing dying or nearly dead character who has taken 4 wounds.	12 hours per wound	
Restoring recently dead character who was placed in medical stasis to avoid death, but who is mostly intact.	1 day per wound	
Restoring recently dead character who is placed in medical stasis to avoid death, and who is missing most of their body.	3 days per wound	
Augmentation		
Minor implants and bioware, minor cosmetic changes like alterations in skin color, eye color or shape, or hair color, texture or distribution, minor alterations to face shape or body fat distribution.	1 hour	
Major brain and neural implants, nanoware or bioware, sex changes, changing height by no more than 5% or weight by no more than 20%.	12 hours	
Major physical modifications like adding limbs or radical changes to height and weight.	3 days	



INTERFACE:

- Augmented Reality (AR), Virtual Reality (VR), Experience Playback (XP)
- Haptics: -10 modifier, increase timeframe for task actions by +25%

ONLINE RESEARCH:

- **COMMON INFO**: Easily retrieved (often automatically retrieved by muses)
- **DETAILED INFO**: Task action (1 minute), Research test
- ANALYSIS: Task action (variable), Research test
- HIDDEN DATA: May need to access specific people or networks to gain certain information.
- **REAL-TIME SEARCHES**: Ongoing mesh scans that alert you if relevant information comes up.

SCANNING / TRACKING / MONITORING

- PHYSICAL TRACKING
 - o Biometrics: Task action (variable), opposed Research test (can also be real-time search)
 - o Mesh ID: Task action (variable), Research test
- DIGITAL ACTIVITY TRACKING
 - o Public Activity: Handled as online research.
 - o Mesh ID: Task action (1 hour), Research test
- **SNIFFING**: Requires sniffer program. (EP, pg. 331)
 - o Mesh ID: Research test
 - o Wireless Monitoring: Infosec test
 - Stealthed Signal: Complex Action, Interfacing test (-30) to locate
 - Active Countermeasures: Opposed Interfacing tests (-30)

MISC

- ANONYMIZATION:
- AR MIST: -10 to -30 penalty depending on level of distraction. Interfacing test filters it out.
- ISSUING COMMANDS: Quick Action
- PRIVACY MODE: -30 penalty to attempts to monitor or track you
- QUANTUM CODEBREAKING: Task action (1 week), Infosec test (-30), cannot break quantum-encryption

Eclipse Phase, pg. 195 CATS: Durability: Wound Throshold Dooth Pating

SHELL STATS: Durability, Wound Threshold, Death Rating

- **HANDLING**: Modifies all physical tests.
- MAX VELOCITY: Maximum speed, listed in km / hour.

CONTROLLING: Each instruction is Quick Action.

- **AUTONOMOUS CONTROL**: Generalized instructions carried out by shell's AI.
- REMOTE CONTROL:
 - o Shell uses operator's aptitudes and initiative.
 - o Tests made at -10 penalty.
 - o Multiple drones can be controlled simultaneously.
- JAMMING: Complex action to engage and disengage.
 - o Control shell as if it were controller's morph.

WOUNDS: -10 modifier to actions, -1 Initiative

• **CRASHING**: Pilot test when suffering wound or crash. Automatically crash if 2+ wounds taken simultaneously.

COLLISIONS: Damage dealt to both shell and object/character struck.

- **DV**: (1d10 + DUR) ÷ 2
 - o RUNNING: DV x 2
 - o **CHASE SPEED**: DV x (velocity ÷ 10)
 - o **SOFT OBJECT**: DV ÷ 2
- **HEAD-ON**: Inflict damage from both shells.
- **SAME DIRECTION**: Count only difference in velocity.

PASSENGERS:

- **COLLISION**: Suffer ½ DV applied to their vehicle.
- TARGETING: Benefit from cover and vehicle's AV.

	MESH GEAR MODIFIERS	
MODIFIER	SOFTWARE/HARDWARE	
-30	Bashed-up devices, no-longer-supported software, relics from Earth or the early expansion into space	
-20	Malfunctioning/inferior devices, buggy software, pre-Fall technology	
-10	Outdated and low quality systems	
0	Standard ectos, mesh inserts, and software	
+10	High-quality goods, standard security-grade products	
+20	Next-generation devices, advanced software	
+30	Newly developed, state-of-the-art, top-of-the-line technology	
>+30	TITANs and/or alien technology	

RADIO AND SENSOR RANGES					
SIZE CATEGORY URBAN RANGE OPEN RANGE EXAMPLES					
Nano	20 meters	100 meters	Smart Dust, Nanobot/Microbot Swarms		
Micro	50 meters	500 meters	Microbugs		
Mini	1 kilometer	20 kilometers	Mesh Inserts		
Small	5 kilometers	50 kilometers	Ectos, Miniature Radio Farcasters, Portable Sensors		
Medium	25 kilometers	250 kilometers	Radio Boosters, Vehicle Sensors		
Large	500 kilometers	5,000 kilometers	237		



ACCOUNT TYPES:

- PUBLIC: No authentication or login, just mesh ID.
- **USER**: Require authentication. Specific access privileges assigned to each user account.
- SECURITY: Require authentication. (Reading logs, commanding security features, adding/deleting user accounts, altering data of other users, etc.)
- **ADMIN**: Complete control over the system.

AUTHENTICATION

- ACCOUNT: Access to an account on one system may give automatic access to related systems.
- MESH ID: Allow access to specific mesh ID or simply log activity by mesh ID.
- PASSCODE: Alphanumeric or logographic symbols submitted in encrypted format.
- **BIOMETRIC SCAN**: User must possess a specific biometric signature (fingerprint, palm print, retinal scan, DNA sample, etc.)
- **PASSKEY**: Encrypted code hardwired into a physical device or extracted from specialized software.
- EGO SCAN: Authenticate's user's ego ID (verifiable from brain patterns); often hardcoded into an ego's current morph (digital ID and nanotat ID)

CIRCUMVENING AUTHENTICATION

- SPOOFING PASSCODE: Requires sniffer and spoofing software. Infosec check to sniff traffic between legitimate user and system. (-20 for security account; -30 for admin account)
- Using Spoofed Passcode: Infosec test (modified by firewall)
- FORGING BIOMETRIC/PASSKEY: Requires access to original.

INTRUSION

- **1. DEFEAT FIREWALL:** Task action (10 minutes), Infosec test (-20 for security account; -30 for admin account)
- 2. BYPASS ACTIVE SECURITY: Variable opposed Infosec vs. Infosec test
 - a. Hacker Excellent Success / Defender Fails: Hidden Status / Admin Privileges
 b. Hacker Success / Defender Fails: Covert Status
 - c. Hacker Success / Defender Fuccess: Spotted Status / Passive Alert
 - d. Hacker Fails / Defender Succeeds: Locked Status / Active Alert

INTRUDER STATUS

- **HIDDEN**: System is unaware and cannot act against them. +30 on Subversion tests.
- **COVERT**: Appear to be a legitimate user.
- **SPOTTED**: Passive alert. System is aware of an anomaly, has not located intruder.
- LOCKED: Active alert. Intruder's datatrail pinned down and flagged as interloper.
- UPGRADING STATUS: Complex action, Infosec test (opposed if Spotted or Locked)
 - o Excellent Success: Upgrade status by one level

SECURITY ALERTS

(pg. 257)

PASSIVE ALERT: -10 to Subversion tests

- Locate Intruder: Complex action, opposed Infosec test (downgrade status to Locked)
- Reauthenticate: Beginning of next turn, all users must log in or Infosec test (-10).
- Reduce Privileges: Reduce access privileges for all user accounts (possibly including security accounts).

ACTIVE ALERT: -20 to Subversion tests

- Counterintrusion: Trace hacker's system and then hack it.
- Lockout: Opposed Infosec test. On success, intruder is ejected from the system and account quarantined.
- Reboot/Shutdown: Complex action to initiate; may take from 1 turn to 1 minute to shutdown.
- *Trace*: Track hacker's physical location (alerting local security or sending own security).
- Wireless Termination: Complex action, all wireless connections severed at the start of next turn.

HACKING – MISCELLANEOUS

CYBERBRAIN HACKING: -30 to all attempts to hack cyberbrain

- *Entrapment*: Complex action, opposed Infosec test. On success, ego cannot transfer out of the cyberbrain. Both ego and muse must be locked out from controlling the cyberbrain to prevent them from freeing the ego.
- *Memory Hacking*: Research or Interfacing test. On success, edit the digital memories contained in cyberbrain.
- *Puppeteering*: Complex action, opposed Infosec test. On success, take control of morph. (Ego can reassert control unless it's been entrapped and locked out.)
- Scorching: Requires scorch program. Complex action, opposed Infosec test.
- Shutdown: Complex action, opposed Infosec test. On success, cyberbrain shuts down. Reboot in 3 action turns.
- Terminate Cortical Stack Feed: Complex action, opposed Infosec test. On success, cortical stack is no longer updated. (Feed to cortical stack is one-way; it cannot be hacked.)

RADIO JAMMING: Complex action, Interfacing test

- Selective: Specific device(s) targeted lose wireless connection.
- Universal: All devices within range lose wireless connection.
- Jammed Radar: Imposes -30 penalty on sensor-related tests.
- Overcoming: Complex action, opposed Interfacing test
 - o Jammer wins: All communications blocked
 - o Defender wins: Defender unaffected
 - o Both win: Communications impacted, but not cut off

SUBVERSION ACTIONS

(pg. 259)

Any action for which you do not have access rights requires an Infosec test.

Modifier Task

- Execute commands, view restricted information, run restricted software, open/close connections to other systems, read/write/copy/delete files, access slaved devices
- -10 Change system settings, alter logs/restricted files
- -20 Interfere with system operations, alter sensor/AR input
- -30 Shut system down, lockout user/muse, launch countermeasures at others

AUGMENTED REALITY ILLUSIONS (pg. 259)

- Prefabbed Imagery: -10 to -30 on Perception test
- Improvised Illusions: +10 to +30 on Perception test
- Distraction: -10 to -30 penalty even if disbelieved (see AR mist)

BACKDOORS (pg. 260)

- *Install*: Programming (-20 for security account; -30 for admin account) and Infosec test (opposed if system is monitored)
- Detecting: Security audit, Task action (24 hours), Infosec test opposed by original Programming test

CRASHING SOFTWARE

- Software: Complex action, Infosec test
- AI: Complex action, 2 consecutive opposed Infosec tests
- AGI / Infomorph: Complex action, 3 consecutive opposed Infoec tests
- Reboot: 3 turns for an AI/AGI/Infomorph, 1 turn to 1 minute for some programs

ELIMINATING INTRUSION TRACES

• Complex action, Infosec test (opposed if system is monitored)

SCRIPT

- Max. # of steps =< character's Programming skill ÷ 10
- Loading: Complex action, Infosec test (opposed if system is monitored)

PHYSICAL SECURITY

(pg. 291

BUG ZAPPERS: Create minute EMP pulses. Harmless to most equipment, but wreak havoc on nanobot swarms, microbugs, and specks. Applied to surfaces or pulsed through entire rooms.

ELECTRONIC LOCKS: Log all events. Connected to security system (remote control and alarms).

- Authentication: Biometric, Keypad, Physical Token, Wireless Code
- Covert Operations Tool: Immediately logged and alarms triggered. Some e-locks are equipped with guardian nanoswarms to thwart COTs (pg. 329).
- *Hack*: Can mean intruding the security system remotely monitoring the e-lock.
- Physical Tampering: Task action (1 minute), Hardware: Electronics to open the case. Second check to trigger the lock mechanism. Most locks will trigger an alarm without Excellent Success.

ADVANCED LOCKS:

- Lockbots: Heavily integrated into the portal/barrier. Can include AI / indentured informorph, self-healing materials, and guardian nanobots (pg. 329). Monitors surroundings (Perception 40). Can shut the key orifice for unrecognized users; guardian nanobots target COTs; and external tools are targeted with fractally-extended appendages (range 1 meter, attack skill 40, DV 1d10+2)
- *Portal Denial System*: Laser trap device. Nonlethal (DV 1d10 + shock) or lethal (DV 2d10+5).

SELF-HEALING BARRIERS: 1 action turn to heal any single source of 5 damage or less. Heal 1d10 damage per 2 hours. Wounds repaired at 1 per day. Damage of 3 wounds or more cannot be repaired.

SLIPPERY WALLS: Coated with slip chemical. Walking/running requires COO test to avoid falling. Gripping requires SOM test. -30 penalty to Climbing tests.

SOFTWARE

(pg. 331)

AR ILLUSIONS: See *Hacking: Subversion Actions*. ENCRYPTION: Encrypts and decrypts messages. (see *Mesh: Quantum Codebreaking*). EXPLOIT: Required for intrusion attempts. FACIAL / IMAGE RECOGNITION: Runs patternmatching searches through public archives. FIREWALL: See *Hacking: Defeat Firewall*. SNIFFER: See *Mesh: Sniffing*. SPOOF: See *Hacking: Circumventing Authentication*. TACTICAL NETWORKS: Allows the sharing of tactical networks. Sample functionality on EP, pg. 205.

TRACKING: See *Hacking: Scanning / Tracking / Monitoring*.

XP: Experience playback recordings.

SUBVERSION EXAMPLES

In addition to the tasks noted under the Subversion Difficulties table, these modifiers present some additional example actions.

MODIFIER TASK

Hack	Hacking Bots/Vehicles				
-0	Give orders to drones				
-10	Alter sensor system parameters, disable sensors or weapon systems				
-20	Alter smartlink input, send false data to AI or teleoperator				
-30	Lockout AI or teleoperator, seize control via puppet sock				
1000					

Hacking Ectos/Mesh Inserts

-0	purchases using user's credit, intercept communications, log activity
-10	Alter social network profile/status, adjust AR filters, tweak sensory interface, change AR skin, change avatar, access VPN
-20	Block or shuffle senses, inject AR illusions, spoof commands to drones/slaved devices

Interact with entoptics, befriend everyone in range, make online

-30 Boot user out of AR

Hacking Habitat Systems

-0	Open/close doors, stop/start elevators, operate intercom	
-10	Adjust temperature/lighting, disable safety warnings,	Ī
-10	replace entoptic skin, lock doors, switch traffic timers	

- Disable subsystems (plumbing, recycling, etc.), disable wireless links, dispatch repair crews
- —30 Override safety cutoffs

Hacking Security Systems

- Move/manipulate cameras/sensors, locate security systems/guards/bots
 Adjust patterns of sensor sweeps, view security logs,
- disable weapon systems
- —20 Delete security logs, dispatch security teams
- -30 Disable alerts

Hacking Simulspace Systems

- View current status of simulspace, simulmorphs, and accessing egos
- -10 Change domain rules, add cheats, alter parameters of story, alter simulmorphs, change time dilation
- -20 Eject simulmorph, alter/erase character Als
- -30 Abort simulation

Hacking Spimes

- -0 Get status report, use device functions
- -10 Adjust Al/voice personality settings, adjust timed operation schedule
- -20 Disable sensors, disable device functions

REPUTATION / SOCIAL NETWORKS

Eclipse Phase, pg. 285

NETWORKING TEST

- **SPEND FAVOR:** If the test is a success, you spend a favor of the appropriate or higher level.
- **REFRESH**: Favors refresh at rate indicated.
- **BURN REP**: Burn rep to gain a favor that hasn't refreshed. Or gain bonus to Networking test equal to rep burned.
- **KEEPING QUIET:** Apply negative modifier to your Networking test to apply equal modifier on anyone trying to trace your activities.

FAVORS					
BURNING FAVOR LEVEL TIMEFRAME REP COST REFRESH RATE					
1 (Trivial)	1 minute	0	1 hour		
2 (Low)	30 minutes	1	1 day		
3 (Moderate)	1 hour	5	1 week		
4 (High)	1 day	10	1 month		
5 (Scarce)	3 days	20	3 months		

NETWORKING MODIFIERS		
SITUATION	MODIFIER	
Favor level exceeds Rep level	-10 per level	
Rep level exceeds favor level	+10 per level	
Keeping quiet	–Variable (p. 288)	
Burning Rep	+Rep amount burned	
Paying extra	+10 per level	

LEVEL	ACQUIRE INFORMATION	ACQUIRE SERVICES	ACQUIRE/UNLOAD GOODS
1 (Trivial)	Common: Where to eat, what a hypercorp's business is. Who's in charge.	Trivial : Simple service for 15 minutes. Move a chair. Browbeat someone. Catch a ride. Borrow 50 credits.	Trivial Expense
2 (Low)	Public: Gray market connections. Where the "bad neighborhood" is. Obscure database info. Who's the local crime syndicate. Public hypercorp news.	Minor: Perform service for 1 hour. Move to a new cubicle. Rough someone up. Loan a vehicle. Minor hacking or legal assistance. Borrow 250 credits.	Low Expense
3 (Moderate)	Private : Black market connections. Location of unlisted hypercorp facility. Who's a cop / syndicate member. Where someone hangs out. Internal hypercorp news. Who's sleeping with whom.	Moderate : Perform service for 1 day. Move to habitat in same cluster. Serious beating. Lookout. Short distance egocast or shuttle trip. Uploading or minor psychosurgery. Borrow 1,000 credits.	Moderate Expense
4 (High)	Secret: Exotic black market connections. Where a secret corp facility is. Where someone's hiding out. Secret corp projects. Who's cheating on whom.	Major: Perform service for 1 month. Move a body. Homicide. Getaway shuttle pilot. Industrial sabotage. Bulk freight. Medium-distance egocast or shuttle trip. Borrow 5,000 credits.	High Expense
5 (Scarce)	Top Secret: Where a black-budget lab is. Illegal corp projects. Scandalous data. Blackmail material.	Partnership: Perform service for 1 year. Move dismembered body. Mass murder. Major embezzlement. Acts of terrorism. Long-range egocast or shuttle trip. Borrow 20,000 credits.	Expensive

REPUTATION NETWORKS				
NETWORK NAME REP NAME NETWORKING FIELD FACTIONS AND OTHERS				
The Circle-A List	@-Rep	Autonomists	anarchists, Barsoomians, Extropians, Titanian, and scum	
CivicNet	c-Rep	Hypercorps	hypercorps, Jovians, Lunars, Martians, Venusians	
EcoWave	e-Rep	Ecologists	nano-ecologists, preservationists, and reclaimers	
Fame	f-Rep	Media	socialites (also artists, glitterati, and media)	
Guanxi	g-Rep	Criminals	criminals	
The Eye	i-Rep	Firewall	Firewall	
Research Network Associates	r-Rep	Scientists	argonauts (also technologists, researchers, and scientists)	

	REPUTATION LEVELS			
	REPUTATION SCORE	REPUTATION LEVEL		
	0–19	Level 1		
	20–39	Level 2		
	40–59	Level 3		
plestada.	60–79	Level 4		
	80–99	Level 5		



RESLEEVING TIME:

Biomorphs (Ego Bridge): 1 hourSynthmorphs: 1 action turn

ADJUSTING

• **Integration Test:** SOM x 3 (no morph bonuses)

• Alienation Test: INT x 3

+1 stress per 10 MoF)

FORKING / MERGING

- **Neural Pruning:** Psychosurgery task action (1 minute), one penalty per 10 MoF.
 - o 1 additional skill decreased -20
 - o Negative mental trait worth 10 CP
 - \circ 1d10 ÷ 2 mental stress
 - o Extra memory loss (beta forks only)
 - o Positive trait lost
- Long-Term Neural Pruning: +30 bonus to Psychosurgery test
 - o **Delta Forks**: Psychosurgery task action (1 week)
 - o Beta Forks: Psychosurgery task action (1 month)
- Merging
 - o **Biomorphs**: Psychosurgery task (10 minutes)
 - o **Synthmorphs**: Psychosurgery task (1 action turn)

TYPES OF FORKS (pg. 273)

- ALPHA FORK: Exact copy of original ego. (Often illegal.)
- BETA FORK: Partial copy of an ego deliberately hobbled.
- DELTA FORK: Limited copy of an ego more akin to AI templates.
- GAMMA FORK: Massively incomplete, corrupted, or heavily damaged egos. Also known as vapors.

INTEGRATION AND ALIENATION MO	DIFIERS
TEST RESULT	EFFECT
Familiar; character has used this exact morph extensively in the past	+30
Clone of prior morph	+20
Character's original morph type (what they were raised with)	+20
Adaptability trait (Level 2)	+20
Adaptability trait (Level 1)	+10
Character has previously used this type of morph	+10
First time resleeving	-10
Character is an AGI sleeving into a physical body	-10
Character is an uplift resleeving in a non-uplift (of their type) body	-10
Synthetic morph	-10
Sex change (from last morph)	-10
Morph is heavily modified	-10
Morphing Disorder trait (Level 1)	-10
Morphing Disorder trait (Level 2)	-20
Infomorph (does not apply to AGIs) (Alienation Test only)	-20
Fork (Alienation Test only)	-20
Morphing Disorder trait (Level 3)	-30
Exotic morph (octomorph, neo-avian, novacrab, swarmanoid, etc.)	-30

INTEGRATION TEST				
TEST RESULT EFFECT				
Critical Failure	Character is unable to acclimate to the new morph— something is just not right. Character suffers a –30 modi- fier to all physical actions until resleeved.			
Severe Failure (MoF 30+)	Character has serious trouble acclimating to the new morph. They suffer a –10 modifier to all actions for 2 days plus 1 day per 10 full points of MoF.			
Failure	Character has some trouble acclimating to new morph. They suffer a –10 modifier to all physical actions for 2 days plus 1 day per 10 full points of MoF.			
Success	Standard acclimation period. The character suffers a –10 modifier to all physical actions for 1 day.			
Excellent Success (MoS 30+)	No ill effects. Character acclimates to new morph in no more than a few minutes.			
Critical Success	Lookin' good! This morph is an exceptionally good fit for the character. No ill effects; gain 1 Moxie point for use in that game session only.			

CONTINUITY STRESS			
SITUATION	STRESS VALUE		
Backup from cortical stack			
Character remembers peaceful or not notable death	1d10 ÷ 2 (round down)		
Character remembers sudden or violent death	1d10		
Backup from archive	1000		
Short memory gap (less than 1 day)	1d10 ÷ 2 (round down)		
Memory gap greater than one day	1d10		
Not knowing if/how you died	+2		
Uploading-to-resleeve with continuity (p. 269)	0		
Uploading-to-resleeve without continuity	1d10 ÷ 2 (round down)		
Character is a fork	2		

ALIENATION TEST			
TEST RESULT	EFFECT		
Critical Failure	Extreme Dysmorphia. The character doesn't like their new sleeve at all and suffers 2 stress points per 10 full points of MoF.		
Failure	Character is uneasy about the new morph and suffers 1 stress point per 10 full points of MoF.		
Success	Character adapts to their new look well. No ill effects.		
Critical Success	Best. Morph. Ever. The new morph jives perfectly with the character's sense of self, and even enhances it somewhat. The character actually heals $1d10 \div 2$ (round up) stress points.		

MERGING					
TIME APART	MODIFIER	SUCCESS	FAILURE		
Under 1 hour	+30	Seamless ego with memories intact from both	Memories intact, (1d10 \div 2, round down) $-$ 1 SV		
1–4 hours	+20	Solid bond, memories intact	Memories intact, (1d10 ÷ 2, round down) SV		
4-12 hours	+10	Memories intact, 1 SV	Minor memory loss, (1d10 ÷ 2, round up) SV		
12 hours-1 day	+0	Memories intact, 2 SV	Moderate memory loss, (1d10 ÷ 2, round up) + 2 SV		
1 day-3 days	-10	Memories intact, 3 SV	Major memory loss, 1d10 + 2 SV		
3 days-1 week	-20	Memories intact, 4 SV	Major memory loss, 1d10 + 4 SV		
1 week+	-30	Minor memory loss, 5 SV	Severe memory loss, 1d10 + 6 SV		
1 week+	-30	Minor memory loss, 5 SV	Severe memory loss, 1d10 + 6 SV		

Eclipse Phase, pg. 220

PASSIVE PSI: Automatically active and subconscious.

ACTIVE PSI:

- **PSI TEST**: Control, Psi Assault, and/or Sense based on sleight
 - o *Critical Success*: x2 sleight potency (DV doubled, mental armor bypassed, etc.) Target may risk exposure to Watts-MacLeod virus (pg. 368).
 - o *Critical Failure*: Brain seizure. Incapacitated for 1 round per MoF. After recovery, -30 penalty to all actions. (Reduce penalty by 10 per minute.)
- **DEFENSE TEST**: WIL x 2, opposed by psi test.
 - o *Critical Success*: Async locked out of target's mind for period of time determined by GM.
 - o Unconscious/sleeping characters cannot defend.
 - o Target is not aware of psi use on failed defense roll.
- **FULL DEFENSE**: Complex Action, +30 modifier to defense test until next action phase

STRAIN: 1d10 ÷ 2 DV (modified by sleight)

MENTAL ARMOR: Reduces damage inflicted by psi assault.

NON-BIOMOPRH PSI EGOS:

- **Synthmorph/Infomorph:** Morph fever and cannot use psi.
- **Pod Morph**: Morph fever, -30 on all psi sleight tests, x2 strain.
- Morph Fever: 1d10 ÷ 2 stress per month

PSI TARGETING

- **Synthmorph/Infomorph**: Cannot be targeted.
- **Pod Morph**: +30 modifier on defense.
- Partial Uplift/Sapient: -20 modifier, strain +1.
- Non-Sapient Animals: -30 modifier, strain +3.
- Aliens: May not work. Minimum -20 modifier, strain +1.
- Multiple Targets: Async rolls once, but suffers strain per target.

PSI RANGE

- **SELF**: Affects only async.
- **TOUCH**: Requires touch attack (+20 modifier). Attack is made as part of psi use.
- CLOSE: 5 meters. -10 per additional meter.
- **PSI vs. PSI**: Against asyncs, touch sleights can be used at close range. Close sleights have their effective range doubled.

PSI DURATION

- CONSTANT: Always "on".
- **INSTANT**: Take effect during action phase they are activated.
- **TEMP (ACTION TURNS):** WIL ÷ 5 action turns
- **TEMP (MINUTES)** WIL ÷ 5 minutes
- **SUSTAINED**: Requires concentration. Must stay within range. -10 modifier to all other skill tests.

STRESSFUL SITUATIONS

Eclipse Phase, pg. 214

WILLPOWER STRESS TEST: WIL x 3

HARDENING:

- After 5 successes vs. a particular source, you are immune to stress from that source.
- -1 Moxie

STRESSFUL EXPERIENCES				
SITUATION	SV			
Failing spectacularly in pursuit of a motivational goal	1d10 ÷ 2 (round down)			
Helplessness	1d10 ÷ 2 (round down)			
Betrayal by a trusted friend	1d10 ÷ 2 (round down)			
Extended isolation	1d10 ÷ 2 (round down)			
Extreme violence (viewing)	1d10 ÷ 2 (round down)			
Extreme violence (committing)	1d10			
Awareness that your death is imminent	1d10			
Experiencing someone's death via XP	1d10			
Losing a loved one	1d10 ÷ 2 (round down)			
Watching a loved one die	1d10 + 2			
Being responsible for the death of a loved one	1d10 + 5			
Encountering a gruesome murder scene	1d10			
Torture (viewing)	1d10 + 2			
Torture (moderate suffering)	2d10 + 3			
Torture (severe suffering)	3d10 + 5			
Encountering aliens (non-sentient)	1d10 ÷ 2 (round down)			
Encountering aliens (sentient)	1d10			
Encountering hostile aliens	1d10 + 3			
Encountering highly advanced technology	1d10 ÷ 2 (round down)			
Encountering exsurgent-modified technology	1d10 ÷ 2 (round down)			
Encountering exsurgent-infected transhumans	1d10			
Encountering exsurgent life forms	1d10 + 3			
Exsurgent virus infection	Varies; see p. 366			
Witnessing psi-epsilon sleights	1d10 + 2			

MISCELLANEOUS

ASPHYXIATION:

- **1.HOLD BREATH:** After 60 seconds, DUR test. Retest every 30 seconds (cumulative -10 modifier per check). On failure, begin asphyxiating.
- **2. ASPHYSIXIATING:** 10 points of damage per minute until they can breathe again. (Drowning characters do not automatically recover.)
 - WIL x 3 test: On failure, 1d10 ÷ 2 mental stress and cannot perform any actions on that turn. On success, they *must* take an action to save themselves unless they make a WIL x 3 test.

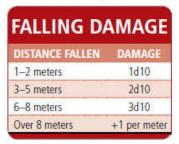
ATMOSPHERE:

- Atmospheric Contamination
 - o Mild Contamination: -10 modifier + other effects
 - o Severely Septic: -30 modifier + other effects
- **Corrosive Atmosphere**: 10 damage per turn + toxic atmosphere. Vehicles/gear take 1 point of damage per minute.
- Toxic Atmosphere: REF x 3 test to hold breath. On failure, 10 damage per turn.

DEMOLITIONS: On critical success, blast ignores armor. On excellent success, +5 damage.

- Disarming: Opposed Demolitions test.
- Making Explosives: 1 hour per 1d10 points of damage the explosive will inflict.
- Shaped Charge: Successful Demolitions test, x3 damage in specific direction.
- Target Weak Points: Successful Demolitions test, x2 damage.

FALLING: Kinetic armor mitigates damage at half its normal value.



NANOFABRICATION: Programming (Nanofabrication) simple success test

- Raw Materials: Usually stocked by default in the nanofabricator.
- **Blueprints**: Common blueprints in nanofabricator. Others can be purchased, stolen, researched, or otherwise obtained.
 - o **Creating Blueprints:** Programming (Nanofabrication) task action (1 week per cost category)
- Fabrication Time: 1 hour per cost category

Nanofabricator AI: Aptitudes: 10. Skills: Infosec 20, Interests: Nanofabricator Specs 80, Interface (Nanofabrication) 30, Programming (Nanofabrication) 30, Research 20, Perception 20.

OBJECTS & STRUCTURES:

- Ranged Attacks: 1/3rd damage on large structures.
- Shooting Through: -30 penalty for blind fire. Target receives armor bonus of object's Armor rating x 2.
- Wounds: Wounds may inflict -10 penalty on characters using the object.

TRAINING ANIMAL: Task action (1 day to 1 month), Animal Handling test

- Commanding Animal: Quick action, simple success Animal Handling test
- Commanding Animal Under Stress: Quick action, Animal Handling test (+30)

VACUUM:

- Up to 1 Minute: No ill effects.
- *After 1 Minute*: Asphyxiation (double damage if they hold breath) + 10 damage per minute from extreme cold.
- Ranged Weapons: Maximum beam range is effectively line of sight.