PROJECT 8709

Sov Stealth

R FOR:

ELEMENT	W	T	WT	003	011	018	025	032	079	095
A. FUNCTIONS:										
Aircraft Functions										
a. acceleration				1						
b. interdiction				1						
c interception				1						
d. countermeasure				1						
e. Acts as antidote for some threat or perceived weakness in overall offensive capability				1						

PROJECT 8709

SOV. STEALTH

R FOR:

ELEMENT	W	T	WT	003	011	018	025	032	079	095
B. OBJECTS:										
Two side by side engines				|						
Single tail				|						
a. slopes back curved + recurved				|						
b. faint horizontal ridges				|						
Wings				|						
a. larger than US				|						
b. not as wide as US				|						
c. Stabilizing ridges mid wing on top				|						
~~B~~ aircraft. (sov)				~~|~~						
a. matte, porous rough texture skin				|						
~~b. faces no acute ang~~										
b. carries weapons				|						
c. Prototype				|						

Sov. Stealth

R FOR:

ELEMENT	W	T	WT	003	011	018	025	032	079	095
C. RELATIONSHIPS:										
US practically disappears Sov does				1						
but leaves bigger trace										
Not as dark as US some silver showing.				1						
Skin coating Primarily on underbelly.				1						
Sov aircraft compared to US				1						
a ~~Sov~~. US. more maneuverable				1						
b. US odds per aircraft of accomplishing mission higher				1						
c. Sov. flies. faster, higher, straighter				1						
d. Sov. less maneuverable.				1						
e. Sov not as successful at NOE travel				1						
f. ~~Sov has conservative design~~										
Sov. has conservative design approach				1						
g. steel cables instead of electronic links				1						
b. conventional control surfaces				1						
c. less versatile + precise fire control				1						
US + Sov weaknesses compared				1						
a. US time consuming to produce				1						
b. US some systems still experimental				1						
c. US unestablished field condition track record				1						
d. US. erosion some sort of hazard				1						
e. US limited Payload				1						

PROJECT 81

R FOR:

ELEMENT	W	T	WT	003	011	018	025	032	079	095
C. RELATIONSHIPS:										
US + SOV weaknesses compared (cont)										
f. SOV. fewer variety of situations				1						
g. SOV. shorter range (significantly)				1						
h. SOV. larger, heavier				1						
i. SOV. brittle construction				1						
j. SOV. high speed can reliability ↑ signature				1						
k. ~~SOV unsophi~~ SOV. unsophisticated avionics				1						
US + SOV strengths compared				1						
a. US. systems redundancy ↑ survability				1						
b. US greater margin of performance + reaction				1						
c. US longer range				1						
d. US quieter.				1						
e. US some capabilities + char. still concerted				1						
f. SOV FASTER				1						
g. SOV. primary controls + systems proven reliable				1						
h. SOV uses components from other aircraft				1						
i. SOV. easier to produce + cheaper				1						
j. SOV less skill to train + fly				1						
k. SOV. larger payload				1						

8709-II

SOV Stealth

R FOR:

ELEMENT	W	T	WT	003	011	018	025	032	079	095
C. RELATIONSHIPS:										
Aircraft not as fancy as US				1						
a. in design				1						
b. in construction				1						
Aircraft performs in fighter envelope than US				1						
a. less forgiving of mishandling				1						
b performance limits lower				1						
c. capabilities more limited				1						
d. not as refined in manufacture				1						
e. less attention to detail not directly function related				1						
Aircraft will be kept close to home				1						
Comparison to US aircraft				1						
a. more rigid				1						
b. more metal content				1						
c. signatures greater but still less than norm				1						
d. easier to make lots of aircraft				1						
Designed to reduce signatures				1						
a. ~~cross~~ c cross-section				1						
b. density				1						
c. reflective				1						
d. noise				1						
e. heat				1						
f. turbine				1						
g. deflecting				1						
h. magnetic				1						

PROJECT 8709-II
Soviet Stealth

R FOR:

ELEMENT	W	T	WT	003	011	018	025	032	079	095
C. RELATIONSHIPS:										
Sov aircraft				1						
a. slopes up from tail to nose				1						
b. rear is close to ground				1						
c. from front has Flat appearance.				1						
d. Canopy is faceted				1						
e. body elements (wings stabilizers canopy				1						
air intake) merge smoothly into fuselage				1						
f. symetrical top to bottom				1						
g. body flares out, edges rounded				1						
h. wings bulge with thicker part at end				1						
i. Two engines				1						
j. Air coming out cooler than usual				1						
k. iris-type thing at back of engine				1						
opens + closes as necessary										
l. microprocessor helps aircraft fly				1						
m. weapons are inside				1						