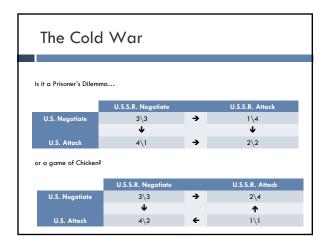
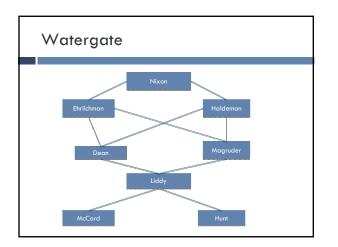


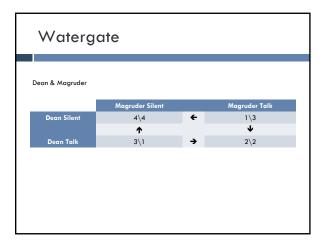
Common	Games			
Prisoner's Dilemma				
	Cooperate		Defect	
Cooperate	3\3	÷	1\4	
	¥		¥	
Defect	4\1	÷	2\2	
Chicken				
	Swerve		Persevere	
Swerve	3\3	÷	2\4	
	\mathbf{A}		^	
Persevere	4\2	+	1\1	

Yom Kip	our War		
Soviet Perception of Pr	eferences		
_			
	U.S.S.R. Diplomacy		U.S.S.R. Military Aid
U.S. Restraint	3\3	→	2\4
	\mathbf{A}		↑
U.S. Intervention	4\1	→	1\2
Nixon places military o	n worldwide alert to portro	iy	
	U.S.S.R. Diplomacy		U.S.S.R. Military Aid
		÷	
U.S. Restraint	3/3	7	1\4 L
0.5. Resident			v
U.S. Intervention	↓ 4\1	÷	2\2



The Cold	War		
Our perception of the ç	jame.		
	U.S.S.R. Negotiate		U.S.S.R. Attack
U.S. Negotiate	4\3	→	2\4
	^		^
U.S. Attack	3\2	÷	1\1
	1.44-		
Real preferences and b	NUTTS.		
	U.S.S.R. Negotiate		U.S.S.R. Attack
U.S. Negotiate	4\4	→	2\3
	\mathbf{v}		^





Watergo	ite		
Dean & Liddy			
	Liddy Silent		Liddy Talk
Dean Silent	(e\e)	→	1\4
	\mathbf{A}		\mathbf{h}
Dean Talk	(4\1)	→	e\e
Dean & Magruder (give	n talking Liddy)		
	Magruder Silent		Magruder Talk
Dean Silent	3\3	→	1\4
			Т
	¥		•

Iran Host	age		
Carter & Khomeni (as p	erceived by Carter)		
	Khomeni Negotiate		Khomeni Obstruct
Carter Negotiate	4\3	÷	2\4
	↑		¥
Carter Intervene	3\2	÷	1\1
Carter & Khamani (artu	-1)		
Carter & Khomeni (actu	aij		
	Khanna ' Manatata		Khomeni Obstruct
	Khomeni Negotiate		
Carter Negotiate	4\2	÷	2\4
Carter Negotiate		÷	

Limitations of Mathematics

- Environmental impact statements...
 can tell you how much money can be made for each salamander killed, but cannot tell you if it is worth it.
- Voting Theory... can tell you which paradoxes may arise under which voting methods, but cannot tell you which method is most representative.
- Apportionment Theory... can tell you which paradoxes may arise under which apportionment methods, but cannot tell you which method is most fair.
- Game Theory...
 can provide you with the optimal strategy for a known game against a rational opponent, but cannot tell you which game you are playing.

What to do...

- □ Students need to be aware of both the power of mathematics in order to use it when appropriate
- □ But they must also be aware of the limitations of mathematics, so that others cannot use it inappropriately.