

## ABSS Math Unit Planning Template

## Introduction:

Grade/Course: 9_12   Discrete Mathematics		Suggested Unit Pacing (# of days): 8 days		
Unit Number and Title:  Unit 5 Voting		Mathematical Practices		
		P1	Make sense of problems and persevere in solving them.	
		P2	Reason abstractly and quantitatively.	
		P3	Construct viable arguments and critique the reasoning of others.	
		P4	Model with mathematics.	
		P5	Use appropriate tools strategically.	
		P6	Attend to precision.	
		P7	Look for and make use of structure.	
Conceptual Overview		P8	Look for and express regularity in repeated reasoning.	
Essential Understandings				
SCS	The learner will analyze data and apply probability concepts to solve problems.	<a href="#">SCS.9_12.MA.2.03.b</a>	Election Theory.	
SCS	The learner will analyze data and apply probability concepts to solve problems.	<a href="#">SCS.9_12.MA.2.03.c</a>	Voting Power.	
Learning Targets	<ul style="list-style-type: none"> <li>• Create a preference schedule from a preference ballot</li> <li>• Use plurality and majority methods to determine a winner (if any)</li> <li>• Use Borda method to determine a winner</li> <li>• Use run-off method to determine a winner</li> <li>• Use sequential run-off method to determine a winner</li> <li>• Use Condorcet method (with points) to determine a winner</li> <li>• Determine the winning coalitions from a weighted voting list</li> <li>• Determine the critical voters in a winning coalition</li> <li>• Calculate the power index for each person in a weighted voting situation</li> </ul>			
Essential Terminology				
Literacy Integration	Literacy Standards	Level	Standard	Standard Name
	Literature Connections			
Technology Integration	Technology Standards	Level	Standard	Standard Name
	Websites			
Assessment	Formative			
	Performance Tasks			
	Summative			
Resources				
Learning Plan	Instructional Sequence	1- Preference ballots/plurality method 2- Borda, run off,, sequential run-off 3- Condorcet 4- Weighted voting <b>Honors: Arrows Conditions</b> 5- Review 6- Test		
Differentiation	Remediation			
	Enrichment			