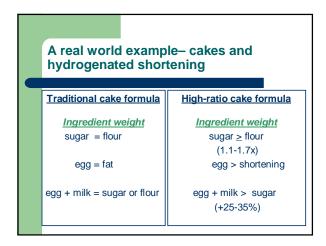


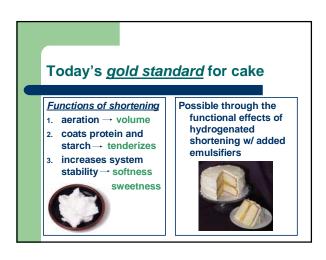




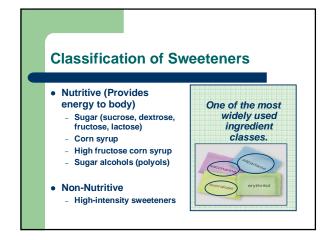
Formulating with food analogs Ingredients have specific roles in foods Selection among analog alternatives depends on desired end quality Complexity of predicting ingredient functionality increases as number of ingredients increases in the food system Formulation must take into account the impact of ingredients on key product quality attributes appearance, flavor, texture, nutrition, safety Reference of the product of the



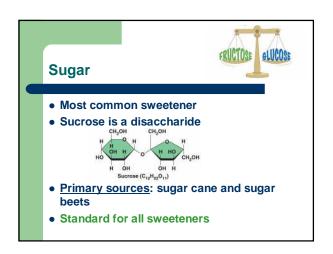


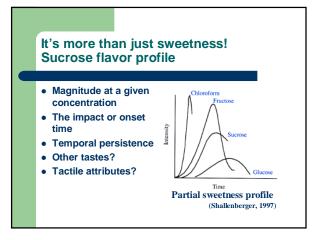


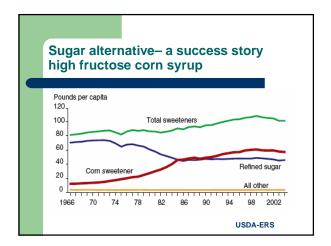


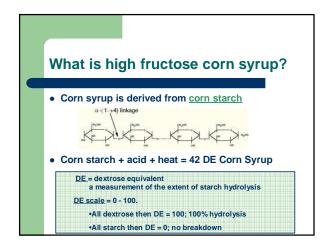


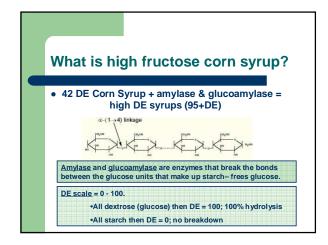


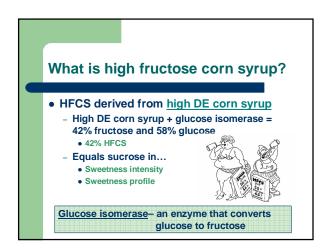


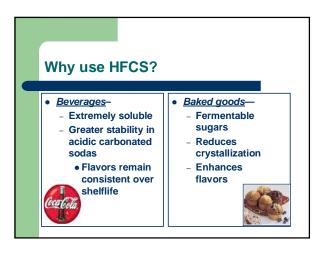


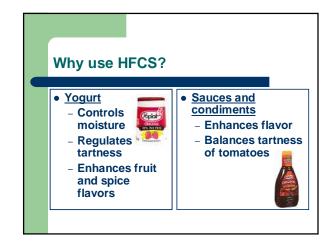


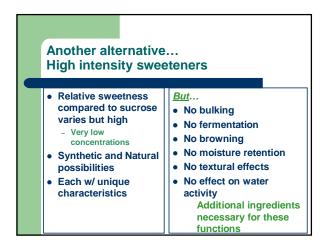












				Sweet	
Sweetener	Relative Sweetness	Time to max intensity	Sweetness duration	Date of Commer- cialization	Comments
Sucrose	1	4.1 sec	66.1 sec	Natural	
Saccharin	300	3.1 sec	77.2 sec	1880s	Cook temp
AceK	200	4.9 sec	77.4 sec	1980's	Hi temp & low acid stable
Sucralose	600	5.0 sec	75.4	1990's	Cook temp, pH 3-7 stable

Synth	netic H	igh Int	ensity	Sweet	eners
Sweetener	Relative Sweetness	Time to max intensity	Sweetness duration	Date of Commer- cialization	Comments
Sucrose	1	4.1 sec	66.1 sec	Natural	
Aspartame	180	6.2 sec	76.7 sec	1970's	Not heat stable; stable at pH 3-5
Neotame	8,000	6.2 sec	76.7 sec	2000's	Flavor enhancer; Heat stable; pH 3 to 5.5 stable

