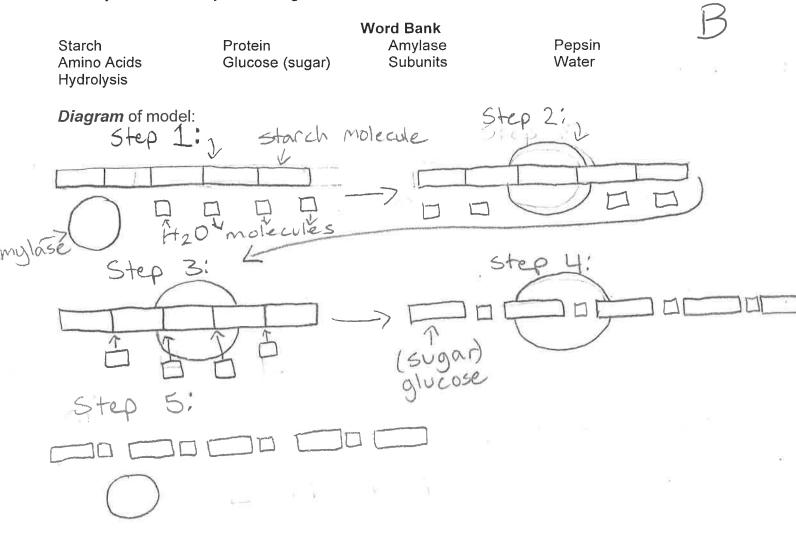
You will be given a collection of items to model the breakdown of large food molecules. You may choose the type of large molecule to model. Your model should be clearly labeled and use arrows or other symbols to show your thinking. You can use the back if needed.

Starch Amino Acids Hydrolysis	Protein Glucose (sugar)	Word Bank Amylase Subunits Starch Molec	Pepsin Water	subunits= actually over 1000
Diagram of model:	or Subunit	3000	10 K	paper clipson top
Paper clip = Chemi	cal bond 2		9	two checkn
Binder (lip - Amy	13. J		Dend Dond	ial
Counter - Water m	olecule H. F	Replat Oc		Mall paper clis
Explain your model	with words (2-3 sente	ences) underline sci	ence words:	ap of many
Subunits(check	rodel, a stare (ers), that ar	e linked to	igether (p.	aper clips). In
a process ca	Hed hydrolys	is, water (ounter) is	added as
well as an	Phzyme calle	f amylase (b	inder clip). The enzyme
a process can well as an holds the mo	bunds and s	slace white	1 he w	ater breat's
engine moter.	ale is reused	untilallo	T-the sul	bun its are sported
2 Developing Does not answer the question; Content contains inaccurate information	3.5 Nearly Proficient	4 Proficient Clearly addresses all parts question accurately; Uses science principles/ terms.	question	ddresses all parts of the accurately; ence principles and terms to
	1 Contain Coodiato	-		

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Explain your model with words (2-3 sentences) underline science words:

STEP 1: There is one large, 5 linked starch molecule, 4 water molecule and one amylase connects with the starch and weakens the bond between the subunits.

STEP 3: The H2O molecules go in between each of the starch links and make smaller subunits

STEP 4: There is now 5 seperate, small subunits that are called

Sugar of al	ucose, in thi	5 Lase.	
2 Developing	3.5 Nearly Proficient	4 Proficient	5 Highly Proficient
Does not answer the question;	On topic, but may not	Clearly addresses all parts of the	Clearly addresses all parts of the
Content contains inaccurate	answer all parts of the	question accurately; Uses	question accurately;
information	question;	science principles/ terms:	Uses science principles and terms to
	Generally accurate.	have	provide details.

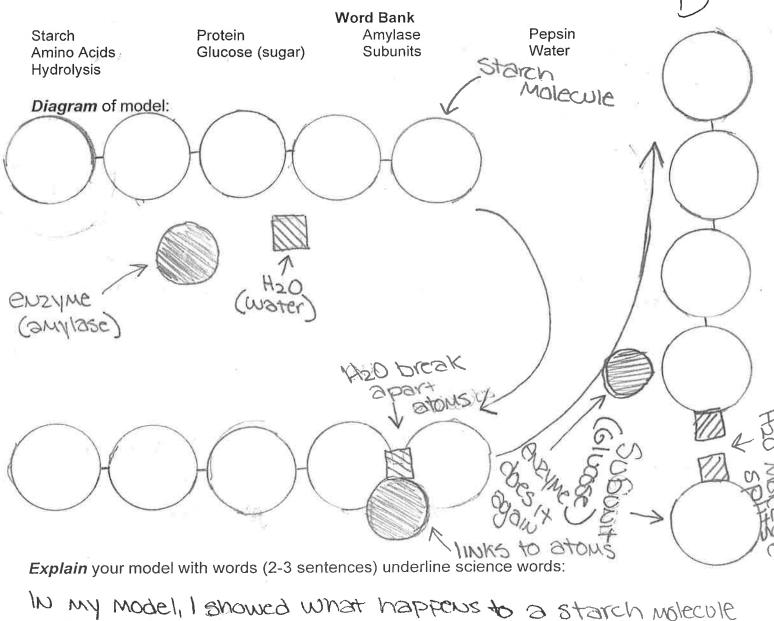
STEP 5: The Starch and water rearange and make a new subunit (the sugar) and the Amylase has don it's job

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Starch Amino Acids Hydrolysis	Protein /Glucose (sugar)	Word Bank /Amylase √Subunits	Pepsin /Water	C
<i>Diagram</i> of mod	lel:			(Sellan 17 Vith water
	Lin	¥ =	Hydrolysis	-mp)
	Lorge	starch robu	1/2	KART

Explain your model v	vith words (2-3 senter	ices) underline science v	words:
In Ans, o	liggram, I 5	hose to explain	the break down
of big stary	h molecules to	Glucoso, Jou e	at the Storch molecule
and when dig	esting the Am	ylase holds on	to it and torque's
it so the	water, can b	Peak each little	unit, off and turn
it into a s	Walnit Ien t	he water lanjoins	with the subunit and
tyms the Stone	h into blugge	of sugar.	<u> </u>
2 Developing	3.5 Nearly Proficient	4 Proficient	5 Highly Proficient
Does not answer the question;	On topic, but may not	Clearly addresses all parts of the	Clearly addresses all parts of the
Content contains inaccurate	answer all parts of the	question accurately; Uses	question accurately;
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IN MY Model, I showed what happens to a starch molecule In the Mouth and when we digest the Motoule. I showed the process hydrohysis. This process breaks down Molecules using water. The amplete links on to two starch molecule atoms, and the water breaks them apart. The water then splits and both glucose and starch are shown. The hydrolysis process then starts agrion.

2 Developing	3.5 Nearly Proficient	4 Proficient	5 Highly Proficient
Does not answer the question; Content contains inaccurate information	On topic, but may not answer all parts of the question; Generally accurate.	Clearly addresses all parts of the question accurately; Uses science principles/ terms.	Clearly addresses all parts of the question accurately; Uses science principles and terms to provide details.

Critique-E

Evaluate Model

1. What about the objects you were provided makes them a **good** item to model the break down of molecules?

The blocks represent a good starch molecule. because they can connect and break apart. The binder clip is good for representing the amalayase holding the submit still because it can go on either side of blocks like it; holding it. The little circle is good for representing the holding it. The little circle is good for representing the holding it. The little circle is good for representing the molecules?

2. What about the objects you were provided limits the ability to model the breakdown of in molecules?

When the water molecule breaks apart the cut the abounits, it breaks in half and we can't show that with the materials we were given.

3. Describe any improvements you would make to your model. Be specific. I would've like to use the magnetic cubes better than the cubes because they break apart easier.