

Group 2A

Name: \_\_\_\_\_

Design an investigation that tests the effect of each enzyme as well as a combination of both on the fermentation rate of com. When you have decided what to include in each of your samples, record in the table below.

Record

	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
Amylase (ml)	0.0 ml	1.0 ml	1.0 ml	2.0 ml	0.0 ml
Glucoamylase (ml)	0.0 ml	1.0 ml	1.0 ml	0.0 ml	2.0 ml
pH buffer	1.0 ml	1.0 ml	0.0 ml	1.0 ml	1.0 ml
Yeast (g)	1.0 g Red Star DADY				
Temp	35 C				

Time (min)	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
0					
3					
6					
9					
12					
15					
18					
21					
24					
27					
30					



Group 2B

Name: \_\_\_\_\_

Design an investigation that tests the effect of each enzyme as well as a combination of both on the fermentation rate of com. When you have decided what to include in each of your samples, record in the table below.

Record					
	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
Amylase (ml)	0.0 ml	1.0 ml	1.0 ml	2.0 ml	0.0 ml
Glucoamylase (ml)	0.0 ml	1.0 ml	1.0 ml	0.0 ml	2.0 ml
pH buffer	1.0 ml	1.0 ml	0.0 ml	1.0 ml	1.0 ml
Yeast (g)	1.0 g Red Star DADY				
Temp	30 C				

Time (min)	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
0					
3					
6					
9					
12					
15					
18					
21					
24					
27					
30					



Group 2C

Name: \_\_\_\_\_

Design an investigation that tests the effect of each enzyme as well as a combination of both on the fermentation rate of com. When you have decided what to include in each of your samples, record in the table below.

Record					
	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
Amylase (ml)	0.0 ml	1.0 ml	1.0 ml	2.0 ml	0.0 ml
Glucoamylase (ml)	0.0 ml	1.0 ml	1.0 ml	0.0 ml	2.0 ml
pH buffer	1.0 ml	1.0 ml	0.0 ml	1.0 ml	1.0 ml
Yeast (g)	1.0 g Red Star DADY				
Temp	40 C				

Time (min)	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
0					
3					
6					
9					
12					
15					
18					
21					
24					
27					
30					



Group 1A

Name: \_\_\_\_\_

Design an investigation that tests the effect of each enzyme as well as a combination of both on the fermentation rate of com. When you have decided what to include in each of your samples, record in the table below.

	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
Amylase (ml)	1.0 ml	1.0 ml	1.0 ml	1.0 ml	1.0 ml
Glucoamylase (ml)	1.0 ml	1.0 ml	1.0 ml	1.0 ml	1.0 ml
pH buffer	1.0 ml	1.0 ml	1.0 ml	1.0 ml	1.0 ml
Yeast (g)	1.0 g Fleischmann	1.0 g Red Star DADY	1.0 g Ethanol Red	0.5 g Red Star DADY	0.5 g Ethanol Red
Temp	35 C	35 C	35 C	35 C	35 C

Time (min)	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
0					
3					
6					
9					
12					
15					
18					
21					
24					
27					
30					



Group 1B

Name: \_\_\_\_\_

Design an investigation that tests the effect of each enzyme as well as a combination of both on the fermentation rate of com. When you have decided what to include in each of your samples, record in the table below.

Record					
	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
Amylase (ml)	1.0 ml	1.0 ml	1.0 ml	1.0 ml	1.0 ml
Glucoamylase (ml)	1.0 ml	1.0 ml	1.0 ml	1.0 ml	1.0 ml
pH buffer	1.0 ml	1.0 ml	1.0 ml	1.0 ml	1.0 ml
Yeast (g)	1.0 g Fleischmann	1.0 g Red Star DADY	1.0 g Ethanol Red	0.5 g Red Star DADY	0.5 g Ethanol Red
Temp	30 C	30 C	30 C	30 C	30 C

Time (min)	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
0					
3					
6					
9					
12					
15					
18					
21					
24					
27					
30					



Group 1C

Name: \_\_\_\_\_

Design an investigation that tests the effect of each enzyme as well as a combination of both on the fermentation rate of com. When you have decided what to include in each of your samples, record in the table below.

Record	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
Amylase (ml)	1.0 ml	1.0 ml	1.0 ml	1.0 ml	1.0 ml
Glucoamylase (ml)	1.0 ml	1.0 ml	1.0 ml	1.0 ml	1.0 ml
pH buffer	1.0 ml	1.0 ml	1.0 ml	1.0 ml	1.0 ml
Yeast (g)	1.0 g Fleischmann	1.0 g Red Star DADY	1.0 g Ethanol Red	0.5 g Red Star DADY	0.5 g Ethanol Red
Temp	40 C	40 C	40 C	40 C	40 C

Time (min)	Test Tube 1	Test Tube 2	Test Tube 3	Test Tube 4	Test Tube 5
5					
10					
15					
20					
25					
30					
35					
40					
45					
50					
55					