

### 3 Graphs

concn - x axis = diff. concentrations  
 y axis = time  
 0 - at the end → fastest



pH - x axis = pH  
 y axis = time



temp - x axis = temp  
 y axis = time

discussion #s - use data from data table she gave us

### Discussion

4.3A - pg. 100 # 1, 2

4.3B - pg. 103 work

no # question → disc. ? is not numbered.

4.3C - pg. 107 # 1, 2

### Conclusion

Summarize the results.

Explain how changes in environment affect reaction rate of an enzyme.

- Be specific - concn, pH, temp

### 2. Prepare the experimental test tubes (test-tube set II):

- Number a second set (set II) of five standard test tubes 1 through 5.
- Beginning with tube 5 of set I, transfer 2 mL of this enzyme dilution into tube 5 of set II. Use a 5-mL pipette for the transfer. Rinse the pipette in distilled water, and repeat the procedure for tubes 4, 3, 2, and 1, transferring 2 mL of tube 4 (set I) into tube 4 (set II), and so forth. After these transfers have been carried out, test-tube set I will no longer be used and can be set aside.
- Add 2 mL of pH 6.8 buffer solution to each of the tubes in the second set. Mix by rolling the tubes between your hands. Set these tubes aside.
- Add 1 or 2 drops of  $I_2KI$  to each compartment of four rows of a test plate. You will use a separate row for each concentration of amylase.
- Using the second set of tubes, proceed with the tests beginning with tube 5.
  - Using a clean 1-mL pipette, add 1 mL of the 1% starch solution to tube 5 and mix by rolling the tube between your hands. One team member should immediately record the time. This is time 0.
  - Quickly remove 1 drop of the mixture with a disposable pasteur pipette, and add it to a drop of  $I_2KI$  in the first compartment on the test plate (time 0).



Remember, when the enzyme and substrate are together, the reaction has begun!

- Sample the reaction mixture at 10-second intervals, each time using a new compartment of the test plate. Continue until a blue color is no longer produced and the  $I_2KI$  solution remains yellow-amber (indicating the digestion of all the starch). Record the time required for the digestion of the starch in Table 4.6.
- Repeat steps 1 through 4 for the other four concentrations (tubes 4, 3, 2, and 1 of set II).

- Finish recording your findings in the Results section, and state your conclusions in the Discussion section.

### Results

- Complete Table 4.6 as you determine rates of digestion (time of starch disappearance) in different enzyme concentrations.

# Morgan Carter Lab Manual Answers

**Christian G. Meyer**



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70x + 1225$   $at(x) = x^2 + 72x + 1296$   $au(x) = x^2 - 74x + 1369$   $av(x) = x^2 + 76x + 1444$   $aw(x) = x^2 - 78x + 1521$   $ax(x) = x^2 + 80x + 1600$   $ay(x) = x^2 - 82x + 1681$   $az(x) = x^2 + 84x + 1764$   $ba(x) = x^2 - 86x + 1849$   $bb(x) = x^2 + 88x + 1936$   $bc(x) = x^2 - 90x + 2025$   $bd(x) = x^2 + 92x + 2116$   $be(x) = x^2 - 94x + 2209$   $bf(x) = x^2 + 96x + 2304$   $bg(x) = x^2 - 98x + 2401$   $bh(x) = x^2 + 100x + 2500$   $bi(x) = x^2 - 102x + 2601$   $bj(x) = x^2 + 104x + 2704$   $bk(x) = x^2 - 106x + 2809$   $bl(x) = x^2 + 108x + 2916$   $bm(x) = x^2 - 110x + 3025$   $bn(x) = x^2 + 112x + 3136$   $bo(x) = x^2 - 114x + 3249$   $bp(x) = x^2 + 116x + 3364$   $bq(x) = x^2 - 118x + 3481$   $br(x) = x^2 + 120x + 3600$   $bs(x) = x^2 - 122x + 3721$   $bt(x) = x^2 + 124x + 3844$   $bu(x) = x^2 - 126x + 3969$   $bv(x) = x^2 + 128x + 4096$   $bw(x) = x^2 - 130x + 4225$   $bx(x) = x^2 + 132x + 4384$   $by(x) = x^2 - 134x + 4489$   $bz(x) = x^2 + 136x + 4624$   $ca(x) = x^2 - 138x + 4781$   $cb(x) = x^2 + 140x + 4840$   $cc(x) = x^2 - 142x + 4961$   $cd(x) = x^2 + 144x + 5076$   $ce(x) = x^2 - 146x + 5209$   $cf(x) = x^2 + 148x + 5344$   $cg(x) = x^2 - 150x + 5481$   $ch(x) = x^2 + 152x + 5616$   $ci(x) = x^2 - 154x + 5761$   $cj(x) = x^2 + 156x + 5896$   $ck(x) = x^2 - 158x + 6081$   $cl(x) = x^2 + 160x + 6272$   $cm(x) = x^2 - 162x + 6449$   $cn(x) = x^2 + 164x + 6624$   $co(x) = x^2 - 166x + 6801$   $cp(x) = x^2 + 168x + 6964$   $cq(x) = x^2 - 170x + 7121$   $cr(x) = x^2 + 172x + 7280$   $cs(x) = x^2 - 174x + 7441$   $ct(x) = x^2 + 176x + 7604$   $cu(x) = x^2 - 178x + 7769$   $cv(x) = x^2 + 180x + 7876$   $cw(x) = x^2 - 182x + 8041$   $cx(x) = x^2 + 184x + 8216$   $cy(x) = x^2 - 186x + 8381$   $cz(x) = x^2 + 188x + 8544$   $da(x) = x^2 - 190x + 8721$   $db(x) = x^2 + 192x + 8864$   $dc(x) = x^2 - 194x + 9001$   $dd(x) = x^2 + 196x + 9136$   $de(x) = x^2 - 198x + 9281$   $df(x) = x^2 + 200x + 9400$   $dg(x) = x^2 - 202x + 9561$   $dh(x) = x^2 + 204x + 9724$   $di(x) = x^2 - 206x + 9881$   $dj(x) = x^2 + 208x + 10000$   $dk(x) = x^2 - 210x + 10176$   $dl(x) = x^2 + 212x + 10360$   $dm(x) = x^2 - 214x + 10521$   $dn(x) = x^2 + 216x + 10684$   $do(x) = x^2 - 218x + 10841$   $dp(x) = x^2 + 220x + 11000$   $dq(x) = x^2 - 222x + 11161$   $dr(x) = x^2 + 224x + 11296$   $ds(x) = x^2 - 226x + 11481$   $dt(x) = x^2 + 228x + 11680$   $du(x) = x^2 - 230x + 11861$   $dv(x) = x^2 + 232x + 12064$   $dw(x) = x^2 - 234x + 12241$   $dx(x) = x^2 + 236x + 12436$   $dy(x) = x^2 - 238x + 12601$   $dz(x) = x^2 + 240x + 12784$   $ea(x) = x^2 - 242x + 12961$   $eb(x) = x^2 + 244x + 13136$   $ec(x) = x^2 - 246x + 13281$   $ed(x) = x^2 + 248x + 13480$   $ee(x) = x^2 - 250x + 13641$   $ef(x) = x^2 + 252x + 13800$   $eg(x) = x^2 - 254x + 13961$   $eh(x) = x^2 + 256x + 14096$   $ei(x) = x^2 - 258x + 14281$   $ej(x) = x^2 + 260x + 14480$   $ek(x) = x^2 - 262x + 14641$   $el(x) = x^2 + 264x + 14840$   $em(x) = x^2 - 266x + 15001$   $en(x) = x^2 + 268x + 15160$   $eo(x) = x^2 - 270x + 15321$   $ep(x) = x^2 + 272x + 15480$   $eq(x) = x^2 - 274x + 15641$   $er(x) = x^2 + 276x + 15800$   $es(x) = x^2 - 278x + 15961$   $et(x) = x^2 + 280x + 16080$   $eu(x) = x^2 - 282x + 16241$   $ev(x) = x^2 + 284x + 16400$   $ew(x) = x^2 - 286x + 16561$   $ex(x) = x^2 + 288x + 16680$   $ey(x) = x^2 - 290x + 16841$   $ez(x) = x^2 + 292x + 17000$   $fa(x) = x^2 - 294x + 17161$   $fb(x) = x^2 + 296x + 17280$   $fc(x) = x^2 - 298x + 17441$   $fd(x) = x^2 + 300x + 17600$   $fe(x) = x^2 - 302x + 17761$   $ff(x) = x^2 + 304x + 17880$   $fg(x) = x^2 - 306x + 18041$   $fh(x) = x^2 + 308x + 18160$   $fi(x) = x^2 - 310x + 18321$   $fj(x) = x^2 + 312x + 18480$   $fk(x) = x^2 - 314x + 18641$   $fl(x) = x^2 + 316x + 18800$   $fm(x) = x^2 - 318x + 18961$   $fn(x) = x^2 + 320x + 19080$   $fo(x) = x^2 - 322x + 19241$   $fp(x) = x^2 + 324x + 19360$   $fq(x) = x^2 - 326x + 19521$   $fr(x) = x^2 + 328x + 19680$   $fs(x) = x^2 - 330x + 19841$   $ft(x) = x^2 + 332x + 19960$   $fu(x) = x^2 - 334x + 20081$   $fv(x) = x^2 + 336x + 20200$   $fw(x) = x^2 - 338x + 20361$   $fx(x) = x^2 + 340x + 20480$   $fy(x) = x^2 - 342x + 20641$   $fz(x) = x^2 + 344x + 20800$   $ga(x) = x^2 - 346x + 20961$   $gb(x) = x^2 + 348x + 21040$   $gc(x) = x^2 - 350x + 21161$   $gd(x) = x^2 + 352x + 21280$   $ge(x) = x^2 - 354x + 21401$   $gf(x) = x^2 + 356x + 21520$   $gg(x) = x^2 - 358x + 21641$   $gh(x) = x^2 + 360x + 21760$   $gi(x) = x^2 - 362x + 21881$   $gj(x) = x^2 + 364x + 22000$   $gk(x) = x^2 - 366x + 22161$   $gl(x) = x^2 + 368x + 22240$   $gm(x) = x^2 - 370x + 22361$   $gn(x) = x^2 + 372x + 22480$   $go(x) = x^2 - 374x + 22601$   $gp(x) = x^2 + 376x + 22720$   $gq(x) = x^2 - 378x + 22841$   $gr(x) = x^2 + 380x + 22960$   $gs(x) = x^2 - 382x + 23081$   $gt(x) = x^2 + 384x + 23200$   $gu(x) = x^2 - 386x + 23321$   $gv(x) = x^2 + 388x + 23440$   $gw(x) = x^2 - 390x + 23561$   $gx(x) = x^2 + 392x + 23680$   $gy(x) = x^2 - 394x + 23801$   $gz(x) = x^2 + 396x + 23920$   $ha(x) = x^2 - 398x + 24041$   $hb(x) = x^2 + 400x + 24160$   $hc(x) = x^2 - 402x + 24281$   $hd(x) = x^2 + 404x + 24400$   $he(x) = x^2 - 406x + 24521$   $hf(x) = x^2 + 408x + 24640$   $hg(x) = x^2 - 410x + 24761$   $hh(x) = x^2 + 412x + 24880$   $hi(x) = x^2 - 414x + 25001$   $hj(x) = x^2 + 416x + 25120$   $hk(x) = x^2 - 418x + 25241$   $hl(x) = x^2 + 420x + 25360$   $hm(x) = x^2 - 422x + 25481$   $hn(x) = x^2 + 424x + 25600$   $ho(x) = x^2 - 426x + 25721$   $hp(x) = x^2 + 428x + 25840$   $hq(x) = x^2 - 430x + 25961$   $hr(x) = x^2 + 432x + 26080$   $hs(x) = x^2 - 434x + 26201$   $ht(x) = x^2 + 436x + 26320$   $hu(x) = x^2 - 438x + 26441$   $hv(x) = x^2 + 440x + 26560$   $hw(x) = x^2 - 442x + 26681$   $hx(x) = x^2 + 444x + 26800$   $hy(x) = x^2 - 446x + 26921$   $hz(x) = x^2 + 448x + 27040$   $ia(x) = x^2 - 450x + 27161$   $ib(x) = x^2 + 452x + 27280$   $ic(x) = x^2 - 454x + 27401$   $id(x) = x^2 + 456x + 27520$   $ie(x) = x^2 - 458x + 27641$   $if(x) = x^2 + 460x + 27760$   $ig(x) = x^2 - 462x + 27881$   $ih(x) = x^2 + 464x + 28000$   $ii(x) = x^2 - 466x + 28121$   $ij(x) = x^2 + 468x + 28240$   $ik(x) = x^2 - 470x + 28361$   $il(x) = x^2 + 472x + 28480$   $im(x) = x^2 - 474x + 28601$   $in(x) = x^2 + 476x + 28720$   $io(x) = x^2 - 478x + 28841$   $ip(x) = x^2 + 480x + 28960$   $iq(x) = x^2 - 482x + 29081$   $ir(x) = x^2 + 484x + 29120$   $is(x) = x^2 - 486x + 29241$   $it(x) = x^2 + 488x + 29360$   $iu(x) = x^2 - 490x + 29481$   $iv(x) = x^2 + 492x + 29600$   $iw(x) = x^2 - 494x + 29721$   $ix(x) = x^2 + 496x + 29840$   $iy(x) = x^2 - 498x + 29961$   $iz(x) = x^2 + 500x + 30080$   $ja(x) = x^2 - 502x + 30201$   $jb(x) = x^2 + 504x + 30320$   $jc(x) = x^2 - 506x + 30441$   $jd(x) = x^2 + 508x + 30560$   $je(x) = x^2 - 510x + 30681$   $jf(x) = x^2 + 512x + 30800$   $jj(x) = x^2 - 514x + 30921$   $jk(x) = x^2 + 516x + 31040$   $jl(x) = x^2 - 518x + 31161$   $jm(x) = x^2 + 520x + 31280$   $jn(x) = x^2 - 522x + 31401$   $jn(x) = x^2 + 524x + 31520$   $jo(x) = x^2 - 526x + 31641$   $jp(x) = x^2 + 528x + 31760$   $jq(x) = x^2 - 530x + 31881$   $jr(x) = x^2 + 532x + 32000$   $js(x) = x^2 - 534x + 32121$   $jt(x) = x^2 + 536x + 32240$   $ju(x) = x^2 - 538x + 32361$   $ju(x) = x^2 + 540x + 32480$   $kv(x) = x^2 - 542x + 32601$   $kv(x) = x^2 + 544x + 32720$   $kw(x) = x^2 - 546x + 32841$   $kw(x) = x^2 + 548x + 32960$   $kx(x) = x^2 - 550x + 33081$   $kx(x) = x^2 + 552x + 33200$   $ky(x) = x^2 - 554x + 33321$   $ky(x) = x^2 + 556x + 33440$   $kz(x) = x^2 - 558x + 33561$   $kz(x) = x^2 + 560x + 33680$   $la(x) = x^2 - 562x + 33801$   $la(x) = x^2 + 564x + 33840$   $lb(x) = x^2 - 566x + 34041$   $lb(x) = x^2 + 568x + 34080$   $lc(x) = x^2 - 570x + 34281$   $lc(x) = x^2 + 572x + 34320$   $ld(x) = x^2 - 574x + 34521$   $ld(x) = x^2 + 576x + 34560$   $le(x) = x^2 - 578x + 34761$   $le(x) = x^2 + 580x + 34800$   $lf(x) = x^2 - 582x + 35001$   $lf(x) = x^2 + 584x + 35040$   $lg(x) = x^2 - 586x + 35241$   $lg(x) = x^2 + 588x + 35280$   $lh(x) = x^2 - 590x + 35481$   $lh(x) = x^2 + 592x + 35520$   $li(x) = x^2 - 594x + 35721$   $li(x) = x^2 + 596x + 35760$   $lj(x) = x^2 - 598x + 35961$   $lj(x) = x^2 + 600x + 36000$   $lk(x) = x^2 - 602x + 36201$   $lk(x) = x^2 + 604x + 36240$   $ll(x) = x^2 - 606x + 36441$   $ll(x) = x^2 + 608x + 36480$   $lm(x) = x^2 - 610x + 36681$   $lm(x) = x^2 + 612x + 36720$   $ln(x) = x^2 - 614x + 36921$   $ln(x) = x^2 + 616x + 36960$   $lo(x) = x^2 - 618x + 37161$   $lo(x) = x^2 + 620x + 37200$   $lp(x) = x^2 - 622x + 37401$   $lp(x) = x^2 + 624x + 37440$   $lq(x) = x^2 - 626x + 37641$   $lq(x) = x^2 + 628x + 37680$   $lr(x) = x^2 - 630x + 37881$   $lr(x) = x^2 + 632x + 37920$   $ls(x) = x^2 - 634x + 38121$   $ls(x) = x^2 + 636x + 38160$   $lt(x) = x^2 - 638x + 38361$   $lt(x) = x^2 + 640x + 38400$   $lu(x) = x^2 - 642x + 38601$   $lu(x) = x^2 + 644x + 38640$   $lv(x) = x^2 - 646x + 38841$   $lv(x) = x^2 + 648x + 38880$   $lw(x) = x^2 - 650x + 39081$   $lw(x) = x^2 + 652x + 39120$   $lx(x) = x^2 - 654x + 39321$   $lx(x) = x^2 + 656x + 39360$   $ly(x) = x^2 - 658x + 39561$   $ly(x) = x^2 + 660x + 39600$   $lz(x) = x^2 - 662x + 39801$   $lz(x) = x^2 + 664x + 39840$   $ma(x) = x^2 - 666x + 40041$   $ma(x) = x^2 + 668x + 40080$   $mb(x) = x^2 - 670x + 40281$   $mb(x) = x^2 + 672x + 40320$   $mc(x) = x^2 - 674x + 40521$   $mc(x) = x^2 + 676x + 40560$   $md(x) = x^2 - 678x + 40761$   $md(x) = x^2 + 680x + 40800$   $me(x) = x^2 - 682x + 41001$   $me(x) = x^2 + 684x + 41040$   $mf(x) = x^2 - 686x + 41241$   $mf(x) = x^2 + 688x + 41280$   $mg(x) = x^2 - 690x + 41481$   $mg(x) = x^2 + 692x + 41520$   $mh(x) = x^2 - 694x + 41721$   $mh(x) = x^2 + 696x + 41760$   $mi(x) = x^2 - 698x + 41961$   $mi(x) = x^2 + 700x + 42000$   $mj(x) = x^2 - 702x + 42201$   $mj(x) = x^2 + 704x + 42240$   $mk(x) = x^2 - 706x + 42441$   $mk(x) = x^2 + 708x + 42480$   $ml(x) = x^2 - 710x + 42681$   $ml(x) = x^2 + 712x + 42720$   $mn(x) = x^2 - 714x + 42921$   $mn(x) = x^2 + 716x + 42960$   $mo(x) = x^2 - 718x + 43161$   $mo(x) = x^2 + 720x + 43200$   $mp(x) = x^2 - 722x + 43401$   $mp(x) = x^2 + 724x + 43440$   $mq(x) = x^2 - 726x + 43641$   $mq(x) = x^2 + 728x + 43680$   $mr(x) = x^2 - 730x + 43881$   $mr(x) = x^2 + 732x + 43920$   $ms(x) = x^2 - 734x + 44121$   $ms(x) = x^2 + 736x + 44160$   $mt(x) = x^2 - 738x + 44361$   $mt(x) = x^2 + 740x + 44400$   $mu(x) = x^2 - 742x + 44601$   $mu(x) = x^2 + 744x + 44640$   $mv(x) = x^2 - 746x + 44841$   $mv(x) = x^2 + 748x + 44880$   $mw(x) = x^2 - 750x + 45081$   $mw(x) = x^2 + 752x + 45120$   $mx(x) = x^2 - 754x + 45321$   $mx(x) = x^2 + 756x + 45360$   $my(x) = x^2 - 758x + 45561$   $my(x) = x^2 + 760x + 45600$   $mz(x) = x^2 - 762x + 45801$   $mz(x) = x^2 + 764x + 45840$   $na(x) = x^2 - 766x + 46041$   $na(x) = x^2 + 768x + 46080$   $nb(x) = x^2 - 770x + 46281$   $nb(x) = x^2 + 772x + 46320$   $nc(x) = x^2 - 774x + 46521$   $nc(x) = x^2 + 776x + 46560$   $nd(x) = x^2 - 778x + 46761$   $nd(x) = x^2 + 780x + 46800$   $ne(x) = x^2 - 782x + 47001$   $ne(x) = x^2 + 784x + 47040$   $nf(x) = x^2 - 786x + 47241$   $nf(x) = x^2 + 788x + 47280$   $ng(x) = x^2 - 790x + 47481$   $ng(x) = x^2 + 792x + 47520$   $nh(x) = x^2 - 794x + 47721$   $nh(x) = x^2 + 796x + 47760$   $ni(x) = x^2 - 798x + 47961$   $ni(x) = x^2 + 800x + 48000$   $nj(x) = x^2 - 802x + 48201$   $nj(x) = x^2 + 804x + 48240$   $nk(x) = x^2 - 806x + 48441$   $nk(x) = x^2 + 808x + 48480$   $nl(x) = x^2 - 810x + 48681$   $nl(x) = x^2 + 812x + 48720$   $no(x) = x^2 - 814x + 48921$   $no(x) = x^2 + 816x + 48960$   $np(x) = x^2 - 818x + 49161$   $np(x) = x^2 + 820x + 49200$   $nq(x) = x^2 - 822x + 49401$   $nq(x) = x^2 + 824x + 49440$   $nr(x) = x^2 - 826x + 49641$   $nr(x) = x^2 + 828x + 49680$   $ns(x) = x^2 - 830x + 49881$   $ns(x) = x^2 + 832x + 49920$   $nt(x) = x^2 - 834x + 50121$   $nt(x) = x^2 + 836x + 50160$   $nu(x) = x^2 - 838x + 50361$   $nu(x) = x^2 + 840x + 50400$   $nv(x) = x^2 - 842x + 50601$   $nv(x) = x^2 + 844x + 50640$   $nw(x) = x^2 - 846x + 50841$   $nw(x) = x^2 + 848x + 50880$   $nx(x) = x^2 - 850x + 51081$   $nx(x) = x^2 + 852x + 51120$   $ny(x) = x^2 - 854x + 51321$   $ny(x) = x^2 + 856x + 51360$   $nz(x) = x^2 - 858x + 51561$   $nz(x) = x^2 + 860x + 51600$   $oa(x) = x^2 - 862x + 51801$   $oa(x) = x^2 + 864x + 51840$   $ob(x) = x^2 - 866x + 52041$   $ob(x) = x^2 + 868x + 52080$   $oc(x) = x^2 - 870x + 52281$   $oc(x) = x^2 + 872x + 52320$   $od(x) = x^2 - 874x + 52521$   $od(x) = x^2 + 876x + 52560$   $oe(x) = x^2 - 878x + 52761$   $oe(x) = x^2 + 880x + 52800$   $of(x) = x^2 - 882x + 53001$   $of(x) = x^2 + 884x + 53040$   $og(x) = x^2 - 886x + 53241$   $og(x) = x^2 + 888x + 53280$   $oh(x) = x^2 - 890x + 53481$   $oh(x) = x^2 + 892x + 53520$   $oi(x) = x^2 - 894x + 53721$   $oi(x) = x^2 + 896x + 53760$   $oj(x) = x^2 - 898x + 53961$   $oj(x) = x^2 + 900x + 54000$   $ok(x) = x^2 - 902x + 54201$   $ok(x) = x^2 + 904x + 54240$   $ol(x) = x^2 - 906x + 54441$   $ol(x) = x^2 + 908x + 54480$   $om(x) = x^2 - 910x + 54681$   $om(x) = x^2 + 912x + 54720$   $on(x) = x^2 - 914x + 54921$   $on(x) = x^2 + 916x + 54960$   $oo(x) = x^2 - 918x + 55161$   $oo(x) = x^2 + 920x + 55200$   $op(x) = x^2 - 922x + 554$

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