| Exp. Number                              |  |                         |                        |  |  |  |  |  |
|--|--|-------------------------|------------------------|--|--|--|--|--|
| Specific Heat                            |  |                         |                        |  |  |  |  |  |
| Name<br>1 (evin Zhang                    | 1  | Partner                 | Course                 | Section  |  |  |  |  |
| Teens colone                             |  | ionah                   | 1215                   |  |  |  |  |  |
|  |  |                         |                        |  |  |  |  |  |
| weight of copper: 25.6                   | 06 q   |                         |                        |  |  |  |  |  |
| water in coffee cup                      | : 49.7 ml  | temperal                | ruc of water           | ~ (usiling): 99.4°   |  |  |  |  |
| temperature of water.                    | in coffee  | up (notine):            | 19.0°C                 | 3  |  |  |  |  |
| temperature of water                     | us coffe   | a (after):              | 27 100                 |  |  |  |  |  |
|  | = (40.7  | 1 1 1 1 1 4 KT          |                        |  |  |  |  |  |
| $q = mc \Delta T \rightarrow q_{\sigma}$ | vater C17.5  | 9 ) ( 9.10 ) 1/9 (      | g <sub>(</sub> ) (22.1 | 6-11.0 ()  |  |  |  |  |
|  |  |                         |                        |  |  |  |  |  |
| 2  | unter = 0.   | 694 143                 |                        |  |  |  |  |  |
| V  |  | 1                       |                        |  |  |  |  |  |
| 2 copper = (25 606                       | 9/6/9  | 9.4°C-22.1°C            | ) = n0.64              | 4KI  |  |  |  |  |
|  | the state of the s | A                       |                        |  |  |  |  |  |
| (0                                       | 644KJ)_  |                         | 10009                  | = 0.325 (< J   |  |  |  |  |
| copper (75                               | 6069) (99.   | 4° (-27.1° ()           | Kg                     | 1<9.°C   |  |  |  |  |
|  |  |                         |                        |  |  |  |  |  |
| wergnt of glass bea                      | ds. 25.59  | 2 9                     | -                      | = 0.325 3/0°C  |  |  |  |  |
| LALLON AN COFFEE C.S                     | . LIG. 7 m   |                         |                        |  |  |  |  |  |
| temperature of cyp (1                    | netord: 1  | 1.6°C                   |                        |  |  |  |  |  |
| temperature of cup (                     | after): 7  | 5,8°C                   |                        |  |  |  |  |  |
| tempurature of mater                     | - (boiling):   | 0130                    |                        |  |  |  |  |  |
| 100000000000000000000000000000000000000  | 14 184 167   | 11149 /                 |                        |  |  |  |  |  |
| 2 water = (49.7g)                        | 160.00   | 10009                   | 25.8 (-)               | ( 6 6)   |  |  |  |  |
|  | 113  | 1, 1,000, 1,1           |                        |  |  |  |  |  |
| = 1.289 1K                               | 5  |                         |                        | <b>+</b>   |  |  |  |  |
|  |  | g                       |                        | 1796327  |  |  |  |  |
| a slass = Malass Cgla                    | TA . 22  | Calass = - VC           | plass -                | 1.604 1633   |  |  |  |  |
| o stars for                              |  | mglas                   | · 47 (                 | 5.5929) (1013-20   |  |  |  |  |
|  |  |                         |                        | A CONTRACTOR OF THE CONTRACTOR |  |  |  |  |
| (1.289 ICT)                              |  | (1000 9)                | - 0.667                | 1<7  |  |  |  |  |
| Cgicss = (1.289 167)<br>(25.5929)(11     | 01.3 (-25.8)   | (1Kg)                   | 1 1 1                  | 1K9.0/   |  |  |  |  |
| 3  |  |                         |                        |  |  |  |  |  |
|  |  |                         | = 0.667                | I lose   |  |  |  |  |
|  |  |                         |                        | 73.6   |  |  |  |  |
|  |  |                         |                        | + +  |  |  |  |  |
|  | +  |                         |                        | <b>†</b>   |  |  |  |  |
|  | Date   | Instructor/TA Signature |                        | Date   |  |  |  |  |
| Student's Signature                      | Date   |                         |                        | Jais   |  |  |  |  |

| Exp. Number           | Experiment Title/ Subject |   |   |             | 05          |  |  |
|-----------------------|---------------------------|---|---|-------------|-------------|--|--|
| Specific Heat ((01)+) |                           |   |   |             |             |  |  |
| Name                  |                           | Lab                                     | Partner                                 | Course      | Section     |  |  |
| 1 CENY                | 1 thang                   |   | Johan                                   | 1215        |             |  |  |
| Copi                  | ed Data from Neig         | jumes (Copper                           | 7.                                      | 1           |             |  |  |
| 1 1 1 1               |                           | 25.488a                                 | 25,043                                  | 49          |             |  |  |
| 1 1 1 7               | nt of water               | 50.09                                   | 50.09                                   |             |             |  |  |
| 1 1 1 9               | ed copper temp            | 105°C                                   | 102.8                                   |             |             |  |  |
|                       | ol water temp             | 22.5°C                                  | 14.10                                   |             |             |  |  |
|                       | 1 temp reached            | 28°C                                    | 17.8°(                                  |             |             |  |  |
| 1 1 1 1               | - ganed by water          | 1150.63                                 | 773.3                                   |             |             |  |  |
| 1 1 1 1               |                           | #1150.67                                | 773.3                                   |             |             |  |  |
|                       | opper specific heat       | 0.585 3/90                              |   |             |             |  |  |
|                       | oppo manana               | 1 |   | 3           |             |  |  |
|                       | en Data Son Werg          | 2020) 2040                              | \.\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |             |             |  |  |
| 1 1 1 1               |                           |   | 25,1090                                 |             |             |  |  |
|                       | int of glass              | 75.2069                                 | 50.09                                   |             |             |  |  |
| 1 1 1 1               | ht of weter               | 50.0g                                   | 104.2°C                                 |             |             |  |  |
| 1 1 1 1               | p of mated glass          | 14.3°C                                  | 77. z°(                                 | 1 1 1       |             |  |  |
| 1 1 1 1               | of water temp             | 21.1°                                   | 28.2°6                                  |             |             |  |  |
| 1 1 1 1               | al temp reached           | 1421.25                                 | 1254,0                                  | 1 1 1 1     |             |  |  |
| 1 1 1 1               | gained by water           | 1421.25                                 | 1254,0                                  |             |             |  |  |
| 1 1 1 1               | lost by glass             | 0.698 3/9                               |   |             |             |  |  |
| spec                  | ifix heat of glass        | 7,5                                     |   | ין יי       |             |  |  |
|                       |                           |   |   |             |             |  |  |
| Ave                   | age specific heats        | 251.10.585                              | ) + (03/3)                              |             |             |  |  |
|                       | Copper = (0.5             | 3                                       | ) + (03(3) =                            | 0.424       | 3/9.6       |  |  |
|                       |                           |   | 1 (0 (58)                               | -1.         |             |  |  |
|                       | 91455 = (0.66             | 1)+(0.61                                | ) + (0.658).                            | = 0.6+4     | 3/300       |  |  |
|                       |                           |   |   | 1-1-1-      | <del></del> |  |  |
|                       |                           |   |   | +           |             |  |  |
|                       |                           | +-+                                     |   | +-+-        |             |  |  |
|                       |                           | +                                       |   |             |             |  |  |
|                       |                           |   |   |             |             |  |  |
|                       |                           |   |   | +           |             |  |  |
|                       |                           |   |   | + + + +     | -           |  |  |
|                       |                           |   |   |             |             |  |  |
|                       |                           |   |   | 1.1.1.      |             |  |  |
| Student's Signat      | ure                       | Date                                    | Instructor/TA Signature                 | A Signature |             |  |  |
| 2                     |                           |   |   |             |             |  |  |