

## UGANDA NATIONAL EXAMINATIONS BOARD CONTINUOUS ASSESSMENT OBSERVATION CHECKLIST 535 PHYSICS

## Senior 3, Term 3

| Centre/CA No:   | Year:   |
|---|---|
| Learner's Name:   | Learner ID:   |
| Instructions to the facilitator:  |   |
|   | ns <b>one</b> competency, which <b>must</b> be assessed                             |
| by the end of this term.  2. Please <b>tick</b> against the indicator assessed. | (s) the learner has exhibited at every level  |
| 3. Record the <b>number of indicator</b> of each level for <b>Subject Compe</b> | rs observed in the boxes provided at the end tency (SC) and Generic Skill (GS).     |
| 4. Indicate <b>N/A</b> if the learner has n                                     | ot been assessed for a particular level(s).   |
| Theme:  | Heat  |
| Topic:  | Heat quantities and Vapours.  |
| Learning Outcome(s):  | Carry out calculations and  |
|   | investigations on specific heat   |
| Subject Compatency (SC)   | capacity/specific latent heat.  |
| Subject Competency (SC):  | Carries out investigation on specific heat capacity/specific latent heat of         |
|   | substances.   |
| Generic Skill (GS):   | Cooperation & self-directed learning.   |
| Learning Domain:  | Psychomotor.  |
| I   | evel 1: Imitation   |
|   |   |
|   | ng the teacher/peer/video clip/laboratory stigations to determine the specific heat |
| capacity/specific latent heat of a  | <del>-</del>  |
| ☐ States the aim of the experiment of   | learly, using relevant words.   |
| ☐ Identifies the independent variable   | e correctly.  |
| ☐ Identifies the dependent variable of  | orrectly  |

| <ul> <li>□ Identifies the controlled variable correctly.</li> <li>□ States the hypothesis of the experiment clearly, using relevant words.</li> <li>□ Lists all the relevant apparatus/materials required for the experiment.</li> <li>□ Draws/makes correct experimental setup.</li> <li>□ Writes the procedure of the experiment coherently/logically.</li> <li>□ Identifies and writes risks/errors or sources of errors in the experiment to be carried out.</li> <li>□ States the precaution(s)/mitigation(s) to the identified error(s).</li> <li>□ Carries out the experiment/investigation, following the stated procedure.</li> <li>□ Presents/records data in a logical format.</li> <li>□ Records data accurately, based on the instrument used and the required range.</li> <li>□ Carries out data analysis correctly, using an appropriate method(s).</li> <li>□ Interprets data correctly.</li> <li>□ Draws an appropriate conclusion, based on the interpretation made.</li> <li>□ Gives appropriate advice/recommendations, based on the findings.</li> </ul> |
|---|
| Generic Skill (GS): Imitating the teacher/peer/video clip/laboratory technician, etc., exhibiting critical thinking and problem-solving skills in carrying out investigations to determine the specific heat capacity/specific latent heat, the learner:  |
| <ul> <li>□ Plans and carries out investigations to determine the specific heat capacity/specific latent heat of substances.</li> <li>□ Sorts and analyses information in determining the specific heat capacity/specific latent heat of substances.</li> <li>□ Identifies problems and ways forward in determining the specific heat capacity/specific latent heat of substances.</li> <li>□ Predicts outcomes and makes reasonable decisions in determining the specific heat capacity/specific latent heat of substances.</li> <li>□ Evaluates different solutions in determining the specific heat capacity/specific latent heat of substances.</li> <li>□ Level 1 Indicators</li> </ul>   |
| SC GS   |
|   |
|   |
| Level 2: Manipulation   |
| Subject Competency (SC): Following instructions from the teacher/video clip/peer/manual, etc., to carry out an investigation to determine the specific heat capacity/specific latent heat of a substance, the learner:  |
| <ul> <li>States the aim of the experiment clearly, using relevant words.</li> <li>Identifies the independent variable correctly.</li> </ul>   |

| □ Id                                 | entifies the dependent variable correctly.<br>entifies the controlled variable correctly.<br>ates the hypothesis of the experiment clearly, using relevant v   | vords        |             |
|--------------------------------------|--|--------------|-------------|
| <ul><li>□ Lis</li><li>□ D1</li></ul> | sts all the relevant apparatus/materials required for the exper<br>raws/makes correct experimental setup.  |              |             |
|                                      | rites the procedure of the experiment coherently/logically. entifies and writes risks/errors or sources of errors in the expat.  | eriment to b | e carried   |
| □ Ca                                 | ates the precaution(s)/mitigation(s) to the identified error(s). arries out the experiment/investigation, following the stated presents/records data in a logical format.  | rocedure.    |             |
| □ Re                                 | escrits/records data in a logical format.<br>ecords data accurately, based on the instrument used and the<br>arries out data analysis correctly, using an appropriate method<br>terprets data correctly.                               | _            | nge.        |
|                                      | raws an appropriate conclusion, based on the interpretation moves appropriate advice/recommendations, based on the finding   |              |             |
| clip,<br>skill                       | eric Skill (GS): Following instructions from the teacher/per/laboratory technician, etc., to exhibit critical thinking and is to carry out an investigation to determine the specific herific latent heat of a substance, the learner: | d problem-   | _           |
|                                      | ans and carries out investigations to determine the specific he  | at capacity/ | specific    |
|                                      | orts and analyses information in determining the specific heat tent heat of substances.  | capacity/sp  | ecific      |
|                                      | entifies problems and ways forward in determining the specific pacity/specific latent heat of substances.  | e heat       |             |
| ca                                   | edicts outcomes and makes reasonable decisions in determinity pacity/specific latent heat of substances.   | _            |             |
|                                      | valuates different solutions in determining the specific heat ca<br>eat of substances.   | pacity/spec  | ific latent |
|                                      |  | Level 2 In   |             |
|                                      |  | SC           | GS          |
|                                      |  |              |             |
|                                      | Level 3: Precision   |              |             |
| Subj                                 | ect Competency (SC): Carrying out an investigation to det  | ermine the   | specific    |

Subject Competency (SC): Carrying out an investigation to determine the specific heat capacity/specific latent heat of a substance, independently but with minimal errors, the learner:

| $\alpha$ | . 1 | •   | C .1   | •          | 1 1     | •        | 1 , 1          |    |
|----------|-----|-----|--------|------------|---------|----------|----------------|----|
| States   | the | aım | of the | experiment | cleariv | . 1181ng | relevant words | S. |

|    | Identifies the independent variable correctly.  |                |             |  |
|----|---|----------------|-------------|--|
|    | Identifies the dependent variable correctly.  Identifies the controlled variable correctly.   |                |             |  |
|    | States the hypothesis of the experiment clearly, using relevant w   | ords.          |             |  |
|    | Lists all the relevant apparatus/materials required for the exper-  | iment.         |             |  |
|    | Draws/makes correct experimental setup.   |                |             |  |
|    | Writes the procedure of the experiment coherently/logically.  |                |             |  |
| Ш  | Identifies and writes risks/errors or sources of errors in the experience.  | eriment to b   | e carried   |  |
|    | States the precaution(s)/mitigation(s) to the identified error(s).  |                |             |  |
|    | Carries out the experiment/investigation, following the stated pr   | ocedure.       |             |  |
|    | Presents/records data in a logical format.  |                |             |  |
|    | Records data accurately, based on the instrument used and the   | _              | nge.        |  |
|    | Carries out data analysis correctly, using an appropriate method<br>Interprets data correctly.  | ı(s).          |             |  |
|    | Draws an appropriate conclusion, based on the interpretation m  | ade.           |             |  |
|    | Gives appropriate advice/recommendations, based on the findin   |                |             |  |
| G  | eneric Skill (GS): Exhibiting critical thinking and problem-sol   | ving skills    |             |  |
|    | dependently to carry out an investigation to determine the  | _              | ıt          |  |
| Ca | spacity/specific latent heat of a substance, the learner:   |                |             |  |
|    | Plans and carries out investigations to determine the specific healatent heat of substances.  | at capacity/   | specific    |  |
|    | Sorts and analyses information in determining the specific heat   | capacity/sp    | ecific      |  |
|    | latent heat of substances.  |                |             |  |
|    | Identifies problems and ways forward in determining the specific  | heat           |             |  |
|    | capacity/specific latent heat of substances.  |                | C' - 1 4    |  |
| Ц  | Predicts outcomes and makes reasonable decisions in determining the specific heat   |                |             |  |
| П  | capacity/specific latent heat of substances.  Evaluates different solutions in determining the specific heat capacity/specific latent |                |             |  |
|    | heat of substances.   | sacity / speci | are racerre |  |
|    |   | Level 3 In     | dicators    |  |
|    |   | sc             | GS          |  |
|    |   |                |             |  |
|    |   |                |             |  |
|    |   |                |             |  |
|    | Level 4: Articulation   |                |             |  |
| Sı | ubject Competency (SC): Carrying out an investigation to det  | ermine the     | specific    |  |

Subject Competency (SC): Carrying out an investigation to determine the specific heat capacity/specific latent heat of a substance, accurately and innovatively, the learner:

| $\alpha$ | . 1 | •   | C . 1  | •          | 1 1     | •         | 1 ,       | 1      |
|----------|-----|-----|--------|------------|---------|-----------|-----------|--------|
| States   | the | 21m | of the | experiment | cleariv | 1191110 1 | relevant. | WOTO S |
|          |     |     |        |            |         |           |           |        |

| <ul> <li>□ Identifies the independent variable correctly.</li> <li>□ Identifies the dependent variable correctly.</li> <li>□ Identifies the controlled variable correctly.</li> <li>□ States the hypothesis of the experiment clearly, using relevant w</li> <li>□ Lists all the relevant apparatus/materials required for the experiment Draws/makes correct experimental setup.</li> <li>□ Writes the procedure of the experiment coherently/logically.</li> <li>□ Identifies and writes risks/errors or sources of errors in the experiment.</li> <li>□ States the precaution(s)/mitigation(s) to the identified error(s).</li> <li>□ Carries out the experiment/investigation, following the stated pr</li> <li>□ Presents/records data in a logical format.</li> <li>□ Records data accurately, based on the instrument used and the</li> <li>□ Carries out data analysis correctly, using an appropriate method</li> <li>□ Interprets data correctly.</li> <li>□ Draws an appropriate conclusion, based on the interpretation m</li> <li>□ Gives appropriate advice/recommendations, based on the finding</li> </ul> | eriment to locedure. required ratel(s). |         |
|--|---|---------|
| Generic Skill (GS): Exhibiting critical thinking and problem-sol and innovatively in carrying out an investigation to determine capacity/specific latent heat of a substance, the learner:   | _                                       | _       |
| <ul> <li>Plans and carries out investigations to determine the specific head latent heat of substances.</li> <li>Sorts and analyses information in determining the specific heat latent heat of substances.</li> <li>Identifies problems and ways forward in determining the specific capacity/specific latent heat of substances.</li> <li>Predicts outcomes and makes reasonable decisions in determining capacity/specific latent heat of substances.</li> <li>Evaluates different solutions in determining the specific heat cap heat of substances.</li> </ul>  | capacity/s                              | pecific |
|  | Level 4 II                              |         |
|  | SC                                      | GS      |
| • • • · · · · · · · · · · · · · · · · ·  |   |         |
| Level 5: Naturalisation  | •                                       | • ••    |
| Subject Competency (SC): Carrying out an investigation to det heat capacity/specific latent heat of a substance, with ease, the  |   | -       |
| ☐ States the aim of the experiment clearly, using relevant words. ☐ Identifies the independent variable correctly.   |   |         |

|           | Identifies the dependent variable correctly.  |
|-----------|---|
|           | Identifies the controlled variable correctly.   |
|           | States the hypothesis of the experiment clearly, using relevant words.  |
|           | Lists all the relevant apparatus/materials required for the experiment.   |
|           | Draws/makes correct experimental setup.   |
|           | Writes the procedure of the experiment coherently/logically.  |
|           | Identifies and writes risks/errors or sources of errors in the experiment to be carried out.  |
|           | States the precaution(s)/mitigation(s) to the identified error(s).  |
|           | Carries out the experiment/investigation, following the stated procedure.   |
|           | Presents/records data in a logical format.  |
|           | Records data accurately, based on the instrument used and the required range.   |
|           | Carries out data analysis correctly, using an appropriate method(s).  |
|           | Interprets data correctly.  |
|           | Draws an appropriate conclusion, based on the interpretation made.  |
|           | Circa annualista advica / managementations than don't be finding.   |
| Ш         | Gives appropriate advice/recommendations, based on the findings.  |
| Gea       | Gives appropriate advice/recommendations, based on the indings.  eneric Skill (GS): Exhibiting critical thinking and problem-solving skills, with  se in carrying out an investigation to determine specific heat capacity/specific  tent heat of a substance, the learner:   |
| Gea<br>la | eneric Skill (GS): Exhibiting critical thinking and problem-solving skills, with see in carrying out an investigation to determine specific heat capacity/specific  |
| Geala     | eneric Skill (GS): Exhibiting critical thinking and problem-solving skills, with use in carrying out an investigation to determine specific heat capacity/specific tent heat of a substance, the learner:  Plans and carries out investigations to determine the specific heat capacity/specific  |
| Geala     | eneric Skill (GS): Exhibiting critical thinking and problem-solving skills, with use in carrying out an investigation to determine specific heat capacity/specific tent heat of a substance, the learner:  Plans and carries out investigations to determine the specific heat capacity/specific latent heat of substances.  Sorts and analyses information in determining the specific heat capacity/specific  |
| Geala     | eneric Skill (GS): Exhibiting critical thinking and problem-solving skills, with use in carrying out an investigation to determine specific heat capacity/specific tent heat of a substance, the learner:  Plans and carries out investigations to determine the specific heat capacity/specific latent heat of substances.  Sorts and analyses information in determining the specific heat capacity/specific latent heat of substances.  Identifies problems and ways forward in determining the specific heat  |
| Geala     | eneric Skill (GS): Exhibiting critical thinking and problem-solving skills, with use in carrying out an investigation to determine specific heat capacity/specific tent heat of a substance, the learner:  Plans and carries out investigations to determine the specific heat capacity/specific latent heat of substances.  Sorts and analyses information in determining the specific heat capacity/specific latent heat of substances.  Identifies problems and ways forward in determining the specific heat capacity/specific latent heat of substances.  Predicts outcomes and makes reasonable decisions in determining the specific heat capacity/specific latent heat of substances. |
| Geala     | eneric Skill (GS): Exhibiting critical thinking and problem-solving skills, with the se in carrying out an investigation to determine specific heat capacity/specific tent heat of a substance, the learner:  Plans and carries out investigations to determine the specific heat capacity/specific latent heat of substances.  Sorts and analyses information in determining the specific heat capacity/specific latent heat of substances.  Identifies problems and ways forward in determining the specific heat capacity/specific latent heat of substances.  Predicts outcomes and makes reasonable decisions in determining the specific heat   |

| Level 5 Indicators |    |  |  |
|--------------------|----|--|--|
| SC                 | GS |  |  |
|                    |    |  |  |
|                    |    |  |  |