

FULL Name: _____

Date: _____

Homeroom Teacher: _____

Grade: _____

Wet Mount Slides - Microscope Lab #3

Purpose (Focus): _____

Materials:

1. Microscope
2. Slides and cover slips
3. Tweezers
4. Newspaper
5. Other samples
6. Pencil

Procedure

1. Obtain a clean, dry microscope slide and cover slip. Place the slide in front of you.
2. Carefully cut a lowercase “e” from the newspaper.
3. Use the medicine dropper to place 1 or 2 drops of water in the middle of the microscope slide.
4. Use tweezers to place the “e” right side up on the drop of water.
5. Hold the cover slip very carefully by its edges, at an angle of about 45° to the surface of the slide. Gently lower the cover slip over the sample. If any air bubbles get trapped, carefully move the cover slip with your finger to free them.
6. View the sample under the microscope. Start with low power and then move to medium power.
7. Make a wet mount of homogenized milk, and view it under medium power.
8. Complete the observations and description chart for 4 of the samples.
9. Get permission from your teacher to make wet and dry mount slides of other samples, such as pond water.
10. Wash your hands thoroughly and hand in your lab sheet.

Observations: Complete the chart on reverse and hand it in at the end for the class for marking.

| | Level 1 | Level 2 | Level 3 | Level 4 |
|-----------------------------------|---|--|--|--|
| Thinking and Investigation | | | | |
| (8s6) | - uses critical/creative thinking processes, skills, and strategies with limited effectiveness - with much assistance follows established safety procedures for investigating ecosystems | - uses critical/creative thinking processes, skills, and strategies with some effectiveness - with some assistance follows established safety procedures for investigating ecosystems | - uses critical/creative thinking processes, skills, and strategies with considerable effectiveness - with no assistance follows established safety procedures for investigating ecosystems | - uses critical/creative thinking processes, skills, and strategies with a high degree of effectiveness - with no assistance follows established safety procedures for investigating ecosystems |
| Communication | | | | |
| (8s11) | - Student expresses and organizes ideas and information using a variety of forms with limited effectiveness | - Student expresses and organizes ideas and information using a variety of forms with some effectiveness | - Student expresses and organizes ideas and information using a variety of forms with considerable effectiveness | - Student expresses and organizes ideas and information using a variety of forms with a high degree of effectiveness |
| | - Few details are present OR most details are difficult to identify. | - Some details have been added. A few details are difficult to identify. | - Many details have been added. The details are clear and easy to identify. | - All details have been added. The details are clear and easy to identify. |
| (8s10) | - Student uses vocabulary and terminology of the discipline with limited effectiveness in oral and written communication | - Student uses vocabulary and terminology of the discipline with some effectiveness in oral and written communication | - Student uses vocabulary and terminology of the discipline with considerable effectiveness in oral and written communication | - Student uses vocabulary and terminology of the discipline with a high degree of effectiveness in oral and written communication |
| Application | | | | |
| (8s7) | - uses a microscope correctly and safely with many errors to find and observe components of plant and animal cells | - uses a microscope correctly and safely with some errors to find and observe components of plant and animal cells | - uses a microscope correctly and safely with few errors to find and observe components of plant and animal cells | - uses a microscope correctly and safely with no errors to find and observe components of plant and animal cells |
| (8s8) | - prepares wet mount slides of a variety of objects for use with a microscope (e.g., a piece of newspaper, a hair) with limited effectiveness | - prepares wet mount slides of a variety of objects for use with a microscope (e.g., a piece of newspaper, a hair) with some effectiveness | - prepares wet mount slides of a variety of objects for use with a microscope (e.g., a piece of newspaper, a hair) with considerable effectiveness | - prepares wet mount slides of a variety of objects for use with a microscope (e.g., a piece of newspaper, a hair) with a high degree of effectiveness |

| Name of Specimen | Detailed Diagram | Description: colour, size, odour, shape, texture, appearance, etc. (10 words) Qualitative, Quantitative |
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