Microscope Data Table 2

| **MicroscopeModel** | **Microscope Type** | **Dimensions** | **Illumination** | **Color or Black/White** | **MagnificationPower** | **Max Resolution** | **Size (l x w x h)** | **Cost** | **Uses** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C1 | Light/Compound | 2D | Light | Color | 40x – 400x | Low ~ 200nm | 23cm x 18cm x 33cm | $150 | View wet mount and dry mount slides; individual cells can be seen both dead and alive |
| C2 | Light/Compound | 2D | Light | Color | 40x – 1000x | Low ~ 200nm | 25cm x 20cm x 35cm | $1,250 | View wet mount and dry mount slides; individual cells can be seen both dead and alive |
| D1 | Stereo/Dissection | 3D | Light | Color | 10x – 100x | Low ~ 200nm | 20cm x 10cm x 30cm | $200  | Used in dissections to view specimen up close; cannot view individual cells |
| D2 | Stereo/Dissection | 3D | Light | Color | 10x – 200x | Low ~ 200nm | 21cm x 12cm x 36cm | $525 | Used in dissections to view specimen up close; cannot view individual cells |
| SEM1 | Scanning Electron Microscope | 3D | Electron | BW | 20x – 300,000x | High ~ 0.1nm | 122cm x 75cm x 75cm | $10,000  | Specimen coated in gold and electrons bounce off surface to view specimen's surface |
| SEM2 | Scanning Electron Microscope | 3D | Electron | BW | 100x – 1,000,000x | High ~ 0.1nm | 120cm x 70cm x 80cm | $200,000 | Specimen coated in gold and electrons bounce off surface to view specimen's surface |
| TEM1 | Transmission Electron Microscope | 2D | Electron | BW | 50x – 1,000,000x | High ~ 0.1nm | 75cm x 75cm x 122cm | $10,250 | Views internal structure by passing electrons through specimen |
| TEM2 | Transmission Electron Microscope | 2D | Electron | BW | 50x – 5,000,000x | High ~ 0.1nm | 72cm x 82cm x 130cm | $200,500 | Views internal structure by passing electrons through specimen |

**Comprehension Questions 2**

1. Have you changed your selection process? Explain.
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Does this new process affect your microscope selection? How?
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_