





## Short Form 1.4 (Assuming instructor uses videos)

| Materials  | Room/ Space   |
|--|---|
| <ul style="list-style-type: none"> <li>- Computer Parts Model Sheet</li> <li>- Computer/Body Parts Model Sheet</li> <li>- Computer Essentials Model Sheet</li> <li>- Cardboard Computer</li> </ul> | <ul style="list-style-type: none"> <li>- Have the computer parts model sheet set up for students to view</li> <li>- Room to perform and practice for skits</li> </ul> |

**Lesson Theme:** Today we will focus on fixing the computer and getting the door open. We will start with 2 of the most important parts: the Motherboard and the CPU.

**Space Bucks Payout Focus-** Being Positive, Communication, Respect, Creative, On Task

|  |  |
|--|--|
|   |   |
| <p><b>Key Resources:</b> Computer Parts Model Sheet (if students need), Computer/Body Parts Model Sheet</p> <p><b>Debrief Video:</b></p> <ul style="list-style-type: none"> <li>● Break students into groups of 4 or 5</li> </ul> <p><b>Activity:</b></p> <ul style="list-style-type: none"> <li>● Each group will send a leader up to the teacher. The teacher will show the leaders one computer part using the Computer/Body Parts Model Sheet</li> <li>● Each member of their group will get a chance to be a leader</li> <li>● The leader is not allowed to talk and will have to explain what the part is to their teams only through actions or drawings</li> <li>● Teams should raise their hand to give answers.</li> <li>● Teams have 2 minutes to guess</li> </ul> <p><b>Instructor Cues:</b></p> <ul style="list-style-type: none"> <li>● Circulate to give Space Bucks</li> </ul> | <p><b>Key Resource:</b> Computer Essentials Model Sheet, Cardboard Computer</p> <p><b>Debrief Video:</b></p> <ul style="list-style-type: none"> <li>● Computers have an important piece called the “motherboard”. Think of it like a spine: the spine allows the nerves to work together and communicate</li> <li>● Ports connect a piece of a computer (ex. monitor, cd drive, etc.) to the motherboard so that they can all work together for you, the user</li> <li>● The CPU, which stands for “<b>C</b>entral <b>P</b>rocessing <b>U</b>nit”, and is a small square that is attached to the motherboard</li> <li>● CPUs can think at different speeds. This is measured in Gigahertz, or GHz, for short</li> </ul> <p><b>Instructor Cues:</b></p> <ul style="list-style-type: none"> <li>● Circulate to give Space Bucks</li> </ul> |
|   |   |
| <p><b>Key Resource:</b> Computer Essentials Model Sheet</p> <p><b>Debrief Video:</b></p> <ul style="list-style-type: none"> <li>● Create teams of 4</li> </ul> <p><b>Activity:</b></p> <ul style="list-style-type: none"> <li>● Students will have 7 minutes to create a skit about the Motherboard, CPU, Port, and Gigahertz</li> <li>● Tell students to refer to the computer parts model sheet if they are having difficulty remembering what the computer part does</li> <li>● Let students know that their skit can be in song form or traditional acting.</li> <li>● Have student perform the skits</li> </ul> <p><b>Instructor Cues:</b></p> <ul style="list-style-type: none"> <li>● Circulate to give Space Bucks</li> </ul>  | <p><b>Key Resource:</b> N/A</p> <p><b>Activity:</b></p> <ul style="list-style-type: none"> <li>● Have students think/pair/share something new that they learned from today’s lesson that they did not know before</li> <li>● If time allows, record Space Bucks earned and purchase prizes</li> </ul>  |

# Models 1.4



## Computer Parts Model Sheet (if students need), Computer/Body Parts Model Sheet

|                        |  |                            |  |  |  |   |  |  |  |  |  |   |  |  |
|------------------------|--|----------------------------|--|--|--|---|--|--|--|--|--|---|--|--|
| <p><b>MONITOR</b></p>  | <p><b>CPU</b></p>  | <p><b>MOTHERBOARD</b></p>  |  |  |  |   |  |  |  |  |  |   |  |  |
| <p><b>KEYBOARD</b></p> | <p><b>PORTS</b></p>  | <p><b>POWER SOURCE</b></p> |  |  |  |   |  |  |  |  |  |   |  |  |
| <p><b>MOUSE</b></p>    | <p><b>COMPUTER PARTS</b></p> <table border="1"> <tr> <td></td> <td><b>MOTHERBOARD</b><br/>A motherboard is one of the most important parts of a computer. It is the place where all computer parts link to each other to make the computer work.</td> </tr> <tr> <td></td> <td><b>POWER SOURCE</b><br/>Where the computer and its parts get energy.</td> </tr> <tr> <td></td> <td><b>HARD DRIVE</b><br/>The so-called memory of a computer.</td> </tr> <tr> <td></td> <td><b>RAM</b><br/>The short-term memory of a computer.</td> </tr> <tr> <td></td> <td><b>CPU</b><br/>A small square found on the motherboard that does what the computer's programs tell it to do and decides how fast the computer can do it.</td> </tr> <tr> <td></td> <td><b>PORTS</b><br/>Where different parts of the computer connect.</td> </tr> </table> |                            |  | <b>MOTHERBOARD</b><br>A motherboard is one of the most important parts of a computer. It is the place where all computer parts link to each other to make the computer work. |  | <b>POWER SOURCE</b><br>Where the computer and its parts get energy. |  | <b>HARD DRIVE</b><br>The so-called memory of a computer. |  | <b>RAM</b><br>The short-term memory of a computer. |  | <b>CPU</b><br>A small square found on the motherboard that does what the computer's programs tell it to do and decides how fast the computer can do it. |  | <b>PORTS</b><br>Where different parts of the computer connect. |
|                        | <b>MOTHERBOARD</b><br>A motherboard is one of the most important parts of a computer. It is the place where all computer parts link to each other to make the computer work.   |                            |  |  |  |   |  |  |  |  |  |   |  |  |
|                        | <b>POWER SOURCE</b><br>Where the computer and its parts get energy.  |                            |  |  |  |   |  |  |  |  |  |   |  |  |
|                        | <b>HARD DRIVE</b><br>The so-called memory of a computer.   |                            |  |  |  |   |  |  |  |  |  |   |  |  |
|                        | <b>RAM</b><br>The short-term memory of a computer.   |                            |  |  |  |   |  |  |  |  |  |   |  |  |
|                        | <b>CPU</b><br>A small square found on the motherboard that does what the computer's programs tell it to do and decides how fast the computer can do it.  |                            |  |  |  |   |  |  |  |  |  |   |  |  |
|                        | <b>PORTS</b><br>Where different parts of the computer connect.   |                            |  |  |  |   |  |  |  |  |  |   |  |  |
| <p><b>MEMORY</b></p>   |  |                            |  |  |  |   |  |  |  |  |  |   |  |  |

## Computer Essentials Model Sheet

**COMPUTER PARTS**

|  |   |
|--|---|
|  | <b>MOTHERBOARD</b><br>Is the spine of your computer and is where all parts of the computer connect and communicate with each other.                     |
|  | <b>CPU</b><br>A small square found on the motherboard that does what the computer's programs tell it to do and decides how fast the computer can do it. |
|  | <b>PORT</b><br>How pieces inside and outside the computer connect to the Motherboard.   |
|  | <b>GIGAHERTZ</b><br>A measurement of how fast the computer can do tasks.  |



## Computer Essentials Model Sheet

**COMPUTER PARTS**

|  |   |
|--|---|
|  | <b>MOTHERBOARD</b><br>Is the spine of your computer and is where all parts of the computer connect and communicate with each other.                     |
|  | <b>CPU</b><br>A small square found on the motherboard that does what the computer's programs tell it to do and decides how fast the computer can do it. |
|  | <b>PORT</b><br>How pieces inside and outside the computer connect to the Motherboard.   |
|  | <b>GIGAHERTZ</b><br>A measurement of how fast the computer can do tasks.  |

NA