

Digital Information

Group Activities

Organize students into groups to complete the following group activities.

1. **The Binary Counter**

Use the [Binary Counter handout](#) to direct this fun activity where groups of four students use their bodies to form a binary counter that can represent numbers from 0-15.

2. **The Binary Counter Challenge**

Extend the Binary Counter activity to include a challenge game. Have the groups challenge each other to read a number displayed on the counter or to display a given number on the counter. Use a stopwatch to time them. Have other students check for accuracy of the result.

3. **Create Your Own Number System**

Students often gain a greater understanding of how any number system works by looking at a number system other than base 10. Have students come up with their own number system and create their own symbols to represent the digits. They can explore this new system by displaying place-value charts, a number table, addition and multiplication tables, and examples of other calculations done in their number system.