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<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Ostracod Bioluminescence Simulation</title>
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
  <style>
    body { font-family: Arial, sans-serif; text-align: center; }
     canvas { max-width: 600px; margin: 20px auto; }
  </style>
</head>
<body>
  <h1>Ostracod Bioluminescence Simulation</h1>
  Tracking bioluminescent courtship displays under different LED intensities
  <canvas id="bioluminescenceChart"></canvas>
  <script>
     const weeks = [1, 2, 3];
     const controlData = [100, 95, 90]; // No LED
     const lowLEDData = [100, 85, 70]; // Low Intensity LED
     const highLEDData = [100, 60, 30]; // High Intensity LED
     const ctx = document.getElementById('bioluminescenceChart').getContext('2d');
     new Chart(ctx, {
       type: 'line',
       data: {
          labels: weeks.map(w => `Week ${w}`),
          datasets: [
              label: 'Control (No LED)',
               data: controlData,
              borderColor: 'green',
              fill: false
            },
               label: 'Low Intensity LED',
               data: lowLEDData,
              borderColor: 'blue',
              fill: false
            },
               label: 'High Intensity LED',
               data: highLEDData,
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borderColor: 'red',
                fill: false
             }
          ]
        },
        options: {
           responsive: true,
           plugins: {
             legend: { position: 'top' }
          },
          scales: {
             y: { beginAtZero: true, title: { display: true, text: 'Bioluminescence Activity (%)' } },
             x: { title: { display: true, text: 'Weeks' } }
        }
     });
  </script>
</body>
</html>
```