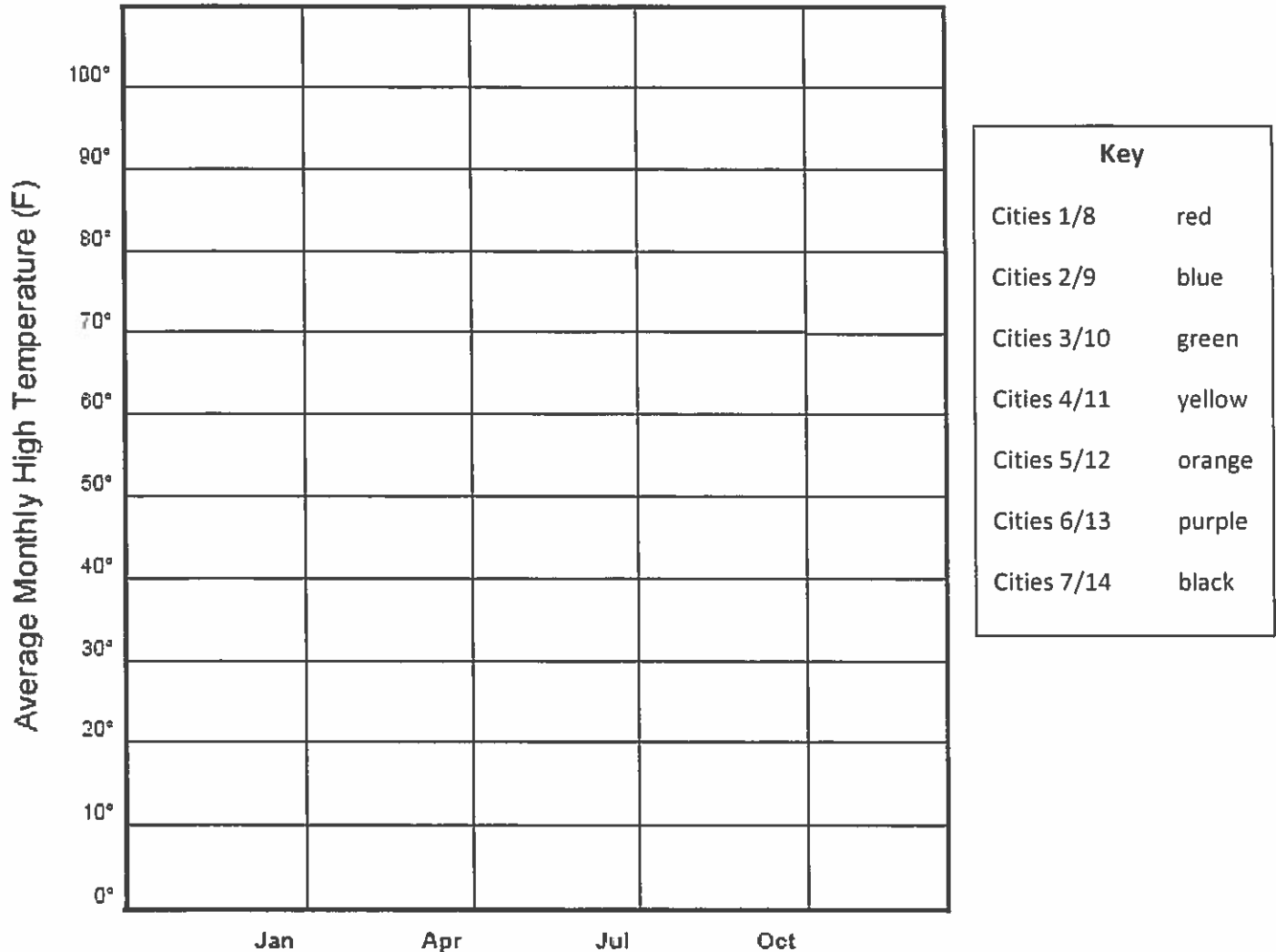


## 8.7A SEASONS ACTIVITY – Heating Things Up

1. In a group of two, one person graph the data for cities 1-7 and the other graph cities 8-14 on the graph below. Color-code your cities using the key to the right of the graph.

### Heating It Up: Student Worksheet



2. Share and discuss your results with your partner. Answer the following questions. *What patterns, if any, do you see on the graphs?*
3. *Categorize the shapes of each line graph (3)? Explain the common characteristics of each type of line. (Hint: Which graphs look the same? You might want to sketch their shape next to the category to help you. ☺)*
- Category 1 –
  - Category 2 –
  - Category 3 –

Name \_\_\_\_\_

Date \_\_\_\_\_

4. Whole Group: Use the map provided below, place a green dot for \_\_\_\_\_ lines, a red dot for \_\_\_\_\_ lines, and a blue dot for \_\_\_\_\_ lines where that city is. Plot each city on the map below using green, red, or blue. Be sure to label the city next to the colored dot! *If you do not know where a city is, research it using Google Earth!* When instructed, one student from each group will place a dot for each city on the large map.



5. Discuss what they see with your partner on the large map. *Is there a pattern to the colors of the dots? EXPLAIN.*

✓ *What happened to the cities to the north of the equator?*

✓ *What happened to the cities on the equator?*

✓ *What happened to the cities to the south of the equator?*

### Chart of Global Temperatures

	January	April	July	October
Cape Town (South Africa) <b>1</b>	69	66	60	65
Caracas (Venezuela) <b>2</b>	75	81	78	79
London (United Kingdom) <b>3</b>	44	56	73	58
Mexico City (Mexico) <b>4</b>	66	77	73	70
Montreal (Canada) <b>5</b>	22	51	79	56
Moscow (Russia) <b>6</b>	21	47	76	46
Nairobi (Kenya) <b>7</b>	77	75	69	77
Paris (France) <b>8</b>	42	60	76	59
San José (Costa Rica) <b>9</b>	75	79	77	77
Seoul (Korea) <b>10</b>	33	62	84	67
Singapore <b>11</b>	86	89	87	88
Stockholm (Sweden) <b>12</b>	31	45	70	48
Sydney (Australia) <b>13</b>	79	73	62	72
Tokyo (Japan) <b>14</b>	48	64	84	70

