Instructions: Complete the pattern then find the pieces with the matching pattern. Do this one at a time for every question.

1. Square, circle, star
   My group’s wavelength looks like (glue image here):
   Glue first box here

2. 14, 17, 20, 23, 26, 29, _____, _____, _____ 32, 35, 38 (add 3)
   My Wavelength is about the size of (glue image here):
   Glue second box here

3. 68, 61, 54, 47, 40, 33, _____, _____, _____ 26, 19, 12 (subtract 7)
   Some of the devices that use my wavelength are (glue image here):
   Glue third box here

4. 42, 44, 36, 38, 40, 32, _____, _____, _____ 34, 36, 28 (add 2 then subtract 8)
   My group is the (glue group name here):
   Glue fourth box here
Instructions: Cut apart these boxes and paste into the answer boxes above.

32, 35, 38

A building

26, 19, 12

Radios,
Ships,
Televisions

34, 36, 28

Radio Wave Group
**Electromagnetic Waves Are Everywhere! Activity – On the Same Wavelength Worksheet Answer Key**

**Instructions:** Complete the pattern then find the pieces with the matching pattern. Do this one at a time for every question.

1. ![Pattern](circle, star, square)  
   My group’s wavelength looks like (glue image here):
   
   Glue first box here

2. 19, 23, 27, 31, 35, 39, _____, _____, _____ 43, 47, 51 (add four)  
   My Wavelength is about the size of (glue image here):
   
   Glue second box here

3. 94, 83, 72, 61, 50, 39, _____, _____, _____ 28, 17, 6 (subtract 11)  
   Some of the devices that use my wavelength are (glue image here):
   
   Glue third box here

4. 20, 23, 14, 17, 20, 11, _____, _____, _____ 14, 5, 8 (add 3 twice, then subtract 9)  
   My group is the (glue group name here)
   
   Glue fourth box here
**Instructions:** Cut apart these boxes and paste into the answer boxes above.

<table>
<thead>
<tr>
<th>A person</th>
<th>43, 47, 51</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellphones, Computers, Wi-Fi routers</td>
<td>28, 17, 6</td>
</tr>
<tr>
<td>Microwave Group</td>
<td>14, 17, 8</td>
</tr>
</tbody>
</table>
Instructions: Complete the pattern then find the pieces with the matching pattern. Do this one at a time for every question.

1. Two stars and a square

My group’s wavelength looks like (glue image here):

Glue first box here

2. 24, 30, 36, 42, 48, 54, _____, _____, _____ 60, 66, 72 (add 6)

My wavelength is about the size of (glue image here):

Glue second box here

3. 92, 87, 82, 77, 72, 67, _____, _____, _____ 62, 57, 52 (subtract 5)

Some of the devices that use my wavelength are (glue image here):

Glue third box here

4. 45, 50, 38, 43, 48, 36, _____, _____, _____ 41, 46, 34 (add 5 twice then subtract 12)

My group is the (glue group name here)

Glue fourth box here
Instructions: Cut apart these boxes and paste into the answer boxes above.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>60, 66, 72</td>
<td>Protozoans</td>
<td></td>
</tr>
<tr>
<td>62, 57, 52</td>
<td>Lightbulbs, Traffic Lights, Televisions</td>
<td></td>
</tr>
<tr>
<td>41, 46, 34</td>
<td>Visible Light Group</td>
<td></td>
</tr>
</tbody>
</table>