## Powers of 10 Summary Activity (Fold Page in Half)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Zooming OUT

|  |  |  |
| --- | --- | --- |
| **Object or scene** | **measurement** | **scientific notation** |
| Picnic | 1 meter | 100 m |
| City |  |  |
| Lake Michigan |  |  |
| The Midwest |  |  |
| Earth |  |  |
| Orbit of the Moon |  |  |
| The Sun |  |  |
| The Solar System |  |  |
| Milky Way Galaxy |  |  |
| Virgo Cluster of Galaxies |  |  |
| Limit of our Vision |  |  |

 | Zooming IN

|  |  |  |
| --- | --- | --- |
| **Object or Scene** | **Measurement** | **Scientific Notation** |
| Man’s hand |  |  |
| Outer layer of cells |  |  |
| A white blood cell |  |  |
| DNA |  |  |
| Atoms |  |  |
| Electrons |  |  |
| Nucleus of a Carbon atom |  |  |

**Discuss**: What happened as we zoomed out and in with the video? How did it change our view of the world - our *perspective*? |

**Response (page \_\_\_) Answer the 6 questions**

1. What is your address...in the Universe?
2. When you want to add three zeros to a number, such as going from 1,000 to 1,000,000, how many powers of 10 are required?
3. What is the difference between a billionth and a billion?
4. When you write out 103, do you write the zeros before or after the 1? Show this.
5. When you write out 10-3, do you write zeros before or after the 1? Where does the decimal point go? Show this.