Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per:\_\_\_\_\_\_\_ Log #:\_\_\_\_\_\_\_

**Geography Tools**

Geographers use all sorts of tools to help them investigate their questions. Some common tools they use are:

1. **Maps**

* Maps are a \_\_\_\_\_\_\_\_\_ representation of a part of Earth.
* Geographers use many \_\_\_\_\_\_\_\_\_\_\_\_\_ of maps
* Maps can show lots of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ information, including locations of places in the world.
* Maps use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to display a round object (Earth) on a flat surface (map)
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (map makers) have long struggled to find the most   
  accurate projection to use on maps

1. **Atlases**

* An atlas is a book of \_\_\_\_\_\_\_\_\_\_\_\_\_.
* An atlas contains maps of the world or a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the world
* Some atlases also include more information about the places they include in the maps
* Atlases can be very helpful for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, instead of bringing many maps, you can bring one atlas.

1. **Globes**

* A globe is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the Earth used to avoid distortion.
* A globe is round, so it is an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ representation of Earth.
* The globe provides an accurate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of how far apart locations are
* A globe can be used to compare the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of different locations

1. **Aerial Photography**

* Aerial photographs are photographs taken from the \_\_\_\_\_\_\_\_\_\_\_ and used to take measurements or create maps
* Aerial photographs can be taken from airplanes, balloons, or even \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. **Satelite Photography**

* Satellite photos are like aerial photos but taken from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. **Information Graphics**

* Information graphics or infographics are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ representations of data.
* Infographics show information using pictures or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* They can be as simple as a bar graph or they can be very complex

1. **GIS (Geographic Information System)**

* GIS is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ based program used to store, manage, and analyze data.
* A GIS map is more than a map because it can pull up a \_\_\_\_\_\_\_\_\_\_\_\_ of information.
* Geographers use GIS to help make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The GIS helps geographers see how information relates to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Maps vs Globes.**

|  |  |
| --- | --- |
| **Globe Strengths:**  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_model of Earth (same shape)  + Show continents and oceans as they \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ (accurate shape)  + Show \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ distances | **Globe Weaknesses**:  - Can’t show much \_\_\_\_\_\_\_\_\_\_\_\_\_\_  - Too \_\_\_\_\_\_\_\_\_\_\_ to be useful every day  - Can only see \_\_\_\_\_\_\_\_ of the globe at a time. |
| **Map Strengths:**  + Easy to use and \_\_\_\_\_\_\_\_\_\_\_\_\_ around  + Can show a lot of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  + Many different \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Map Weaknesses:**  - Maps are \_\_\_\_\_\_\_\_\_\_; Earth is \_\_\_\_\_\_\_\_\_\_\_  - ALL maps have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  - Distortion is worse near the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Words to know:**

* **Distortion:** loss of accuracy
* **Scale:** Relative size