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