Name______________________________

**Tooling Around Arizona**
**Use Arizona Cities Map (with or without compass rose)**
Measuring Distances

Directions: Using the scale on the Arizona Cities Map, measure the distances between the following cities. Measure from the center of the triangle that represents the city listed.

Measure the distances in miles:

1. St. John’s to Winslow
2. Casa Grande to Ajo
3. Quartzsite to Yuma
4. Tucson to Tombstone
5. Globe to Payson
6. Tombstone to Douglas
7. Flagstaff to Page

Measure the distances in kilometers:

8. Phoenix to Casa Grande
9. Flagstaff to Winslow

10. Flagstaff to Cottonwood

11. Ajo to Gila Bend

12. Safford to Morenci

13. Yuma to Quartzsite

BONUS:

If I traveled directly from Phoenix to Payson to Winslow to Page, how many miles have I traveled?

How far is it in km if I travel from Lake Havasu City to Quartzsite to Gila Bend to Tucson to Tombstone?
Tooling Around Arizona

Use Arizona Cities Map (with or without compass rose)

Measuring Distances

Answer Key

Directions: Using the scale on the Arizona Cities map, measure the distances between the following cities. Measure from the center of the triangle that represents the city listed.

Measure the distances in miles:

1. St. John’s to Winslow
   85 miles

2. Casa Grande to Ajo
   75 miles

3. Quartzsite to Yuma
   75 miles

4. Tucson to Tombstone
   70 miles

5. Globe to Payson
   80 miles

6. Tombstone to Douglas
   30 miles

7. Flagstaff to Page
   120 miles

Measure the distances in kilometers:

8. Phoenix to Casa Grande
   70 km.

9. Flagstaff to Winslow
   90 km.

10. Flagstaff to Cottonwood
    70 km.
11. Ajo to Gila Bend
   80 km.

12. Safford to Morenci
   40 km.

13. Yuma to Quartzsite
   120 km.

BONUS:
If I traveled directly from Phoenix to Payson to Winslow to Page, how many miles have I traveled?

270 miles

How far is it in km. if I travel from Lake Havasu City to Quartzsite to Gila Bend to Tucson to Tombstone?

480 km.
Name________________________________________

**Tooling Around Arizona**  
**Use Arizona Cities Map (with or without compass rose)**  
Determining Directions

Using the Arizona Cities map, decide the direction you will go as you travel to each city. Write the direction next to the city. Take the most direct route to each city listed.

1. In which direction are you headed when traveling through these cities:

   Willcox to Safford ______________________
   Safford to Globe ______________________
   Globe to Payson ______________________
   Payson to Page ______________________

2. In which direction are you headed when traveling through these cities:

   Kingman to Page ______________________
   Page to St. Johns ______________________
   St. John’s to Prescott ______________________
   Prescott to Lake Havasu City ______________________
   Lake Havasu City to Gila Bend ______________________
3. In which direction are you headed when traveling through these cities:

Tucson to Nogales
Nogales to Tombstone
Tombstone to Willcox
Willcox to Gila Bend
Gila Bend to Kingman
Kingman to Prescott

4. In which direction are you headed when traveling through these cities:

Casa Grande to Safford
Safford to Morenci
Morenci to St. Johns
St. John’s to Lake Havasu City
Lake Havasu City to Yuma

Using the Arizona Cities map that has a compass rose, complete the following:

5. I am in Morenci. If I travel north, to what city will I come?

6. I am in Yuma and traveling northeast. Name three cities through which I might drive.
7. Name the first city in which I could stop if I followed these directions:
   I start in Kingman and travel East
   then Southwest
   then South
   then Southeast
   then Southwest

8. Name the first city in which I could stop if I followed these directions:
   I start in Douglas and travel West
   then Northwest
   then Northeast
   then North
   then East

9. Name the first city in which I could stop if I followed these directions:
   I start in Globe and travel Northeast
   then Northwest
   then Southwest
   then Southwest
   then South
Tooling Around Arizona
Use Arizona Cities Map (with or without compass rose)
Determining Directions
Answer Key

Using the Arizona Cities map, decide the direction you will go as you travel to each city. Write the direction next to the city. Take the most direct route to each city listed.

1. In which direction are you headed when traveling through these cities:

Willcox to Safford: $N$
Safford to Globe: $NW$
Globe to Payson: $NW$
Payson to Page: $N$

2. In which direction are you headed when traveling through these cities:

Kingman to Page: $NE$
Page to St. Johns: $SE$
St. John’s to Prescott: $W$
Prescott to Lake Havasu City: $W$
Lake Havasu City to Gila Bend: $SE$
3. In which direction are you headed when traveling through these cities:

- Tucson to Nogales: S
- Nogales to Tombstone: NE
- Tombstone to Willcox: N
- Willcox to Gila Bend: NW
- Gila Bend to Kingman: NW
- Kingman to Prescott: SE

4. In which direction are you headed when traveling through these cities:

- Casa Grande to Safford: E
- Safford to Morenci: NE
- Morenci to St. Johns: N
- St. John’s to Lake Havasu City: W
- Lake Havasu City to Yuma: SW

Using the Arizona Cities map that has a compass rose, complete the following:

5. I am in Morenci. If I travel north, to what city will I come?
   - St. John’s

6. I am in Yuma and traveling northeast. Name three cities through which I might drive.
   - Possible answers: Quartzsite, Gila Bend, Phoenix, Payson
7. Name the first city in which I could stop if I followed these directions:

I start in Kingman and travel East __________ Flagstaff
then Southwest __________ Cottonwood
then South __________ Phoenix
then Southeast __________ Casa Grande
then Southwest __________ Ajo

8. Name the first city in which I could stop if I followed these directions:

I start in Douglas and travel West __________ Nogales
then Northwest __________ Ajo
then Northeast __________ Casa Grande
then North __________ Phoenix
then East __________ Globe

9. Name the first city in which I could stop if I followed these directions:

I start in Globe and travel Northeast __________ St. John’s
then Northwest __________ Winslow
then Southwest __________ Cottonwood
then Southwest __________ Prescott
then South __________ Gila Bend
Tooling Around Arizona
Elevation
Use Arizona Topography and Rivers Map

1. What is the elevation in Flagstaff?

2. What is the elevation in Yuma?

3. What is the elevation in Tucson?

4. What is the elevation in Phoenix?

5. What is the elevation surrounding the Gila River from Yuma to Phoenix?

How does the elevation change from:

6. Yuma to Flagstaff?

7. Tucson to Yuma?

8. Phoenix to Tucson?

9. Phoenix to Flagstaff?
Arizona Elevation Worksheet Answer Key
Use Arizona Topography and Rivers Map

1. What is the elevation in Flagstaff?
   5000-8000 ft.

2. What is the elevation in Yuma?
   0-1000 ft.

3. What is the elevation in Tucson?
   1000-5000 ft.

4. What is the elevation in Phoenix?
   1000-5000 ft.

5. What is the elevation surrounding the Gila River from Yuma to Phoenix?
   0-1000 ft.

How does the elevation change from:

6. Yuma to Flagstaff?
   Flagstaff is higher.

7. Tucson to Yuma?
   Yuma is lower.

8. Phoenix to Tucson?
   They are the same.

9. Phoenix to Flagstaff?
   Flagstaff is higher.
Name______________________________

Tooling Around Arizona Assessment

Using the Arizona Cities Map (with or without the compass rose), complete the following questions:

1. Which city is northeast of Phoenix?
   a. Tucson
   b. Kingman
   c. Winslow

2. Which city is southwest of Payson?
   a. St. John’s
   b. Quartzsite
   c. Safford

3. Which city is northwest of Casa Grande?
   a. Lake Havasu City
   b. Page
   c. Ajo

4. If I travel from Ajo to Globe, what direction will I go?
   a. southeast
   b. northeast
   c. northwest

5. What direction will I travel to go from Willcox to Nogales?
   a. southeast
   b. northeast
   c. southwest

6. What direction will I travel to go from St John’s to Prescott?
   a. west
   b. east
   c. southeast
7. What city is about 100 miles north of Tombstone?
   a. Globe
   b. Morenci
   c. St. John’s

8. What city is about 120 miles northwest of Ajo?
   a. Quartzsite
   b. Yuma
   c. Nogales

9. What city is about 260 km. Southeast of Winslow?
   a. Globe
   b. Phoenix
   c. Morenci

Use the Arizona Topography and Rivers Map to answer the following question:

10. At what elevation are most of the major rivers in Arizona found?
    a. 0 - 1000
    b. 1000 - 5000
    c. 5000 - 8000
Tooling Around Arizona Assessment Answer Key

Using the Arizona Cities Map (with or without the compass rose), complete the following questions:

1. Which city is northeast of Phoenix?
   
   c. Winslow

2. Which city is southwest of Payson?

   b. Quartzsite

3. Which city is northwest of CasaGrande?

   a. Lake Havasu City

4. If I travel from Ajo to Globe, what direction will I go?

   b. northeast

5. What direction will I travel to go from Willcox to Nogales?

   c. southwest

6. What direction will I travel to go from St John’s to Prescott?

   a. west

7. What city is about 100 miles north of Tombstone?

   c. Morenci
8. What city is about 120 miles northwest of Ajo?
   a. Quartzsite

9. What city is about 260 km. Southeast of Winslow?
   c. Morenci

Use the Arizona Topography and Rivers Map to answer the following question:

10. At what elevation are most of the major rivers in Arizona found?
    b. 1000 - 5000
Example of brainstorm for three maps for Venn Diagram

Arizona Cities (with or without compass rose)
city names
title
scale
longitude and latitude measures
symbols
compass rose (if using the map where the compass rose is included)
cartographer

Arizona Topography and Rivers
city names
color/shading
scale
title
longitude and latitude
rivers
symbols
elevation
cartographer

Arizona Landforms and Rivers
city names
title
landforms
rivers
longitude and latitude
symbols
scale
cartographer