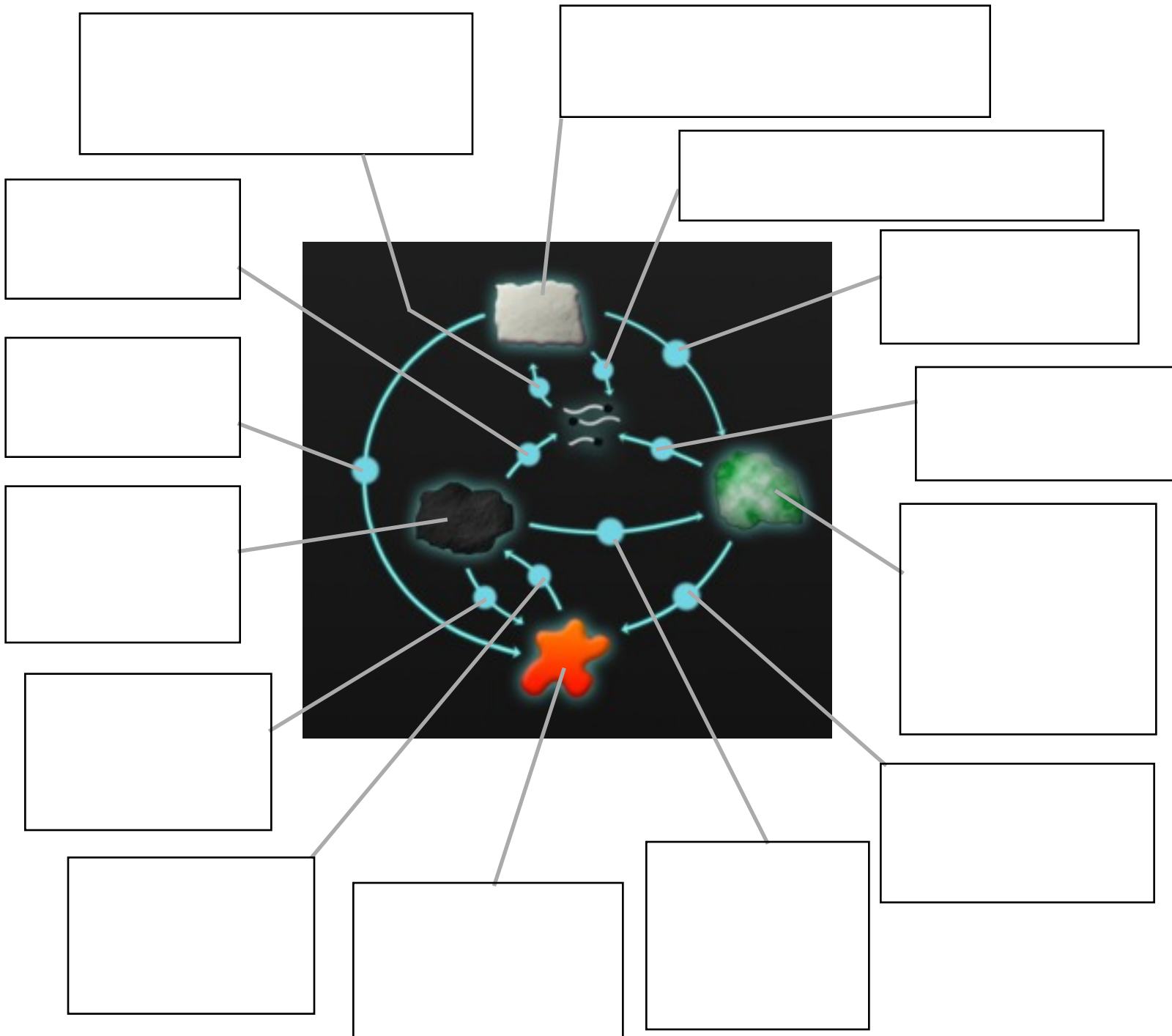


## **Working through The Rock Cycle**

You will be using The Rock Cycle iPad app to complete the following. The Rock Cycle is an interactive story about the life of a rock. Weathered and aged, he tells his life story in this elegant poem. Each stanza is supplemented with interactive images, diagrams, and mini-games.

1. Find The Rock Cycle app on the iPad and open the app. Tap the "Begin" button and read the first stanza of the poem. Follow the directions on the screen to complete the following:
2. Fill in the following parts of the rock cycle by tapping on each section of the diagram:



3. What is the melting point of each of the following:

Sample	Melting Point
iron	
magnesium	
silicon	
calcium	
chromium	

4. Describe each of the following rocks:

Rock Name	Silica Content	Texture (Grain)	Other Characteristics
Gabbro			
Basalt			
Diorite			
Andesite			
Granite			
Rhyolite			

5. Describe the effects of each of the the following agents of weathering and erosion:

Agent of weathering/erosion	Effects
wind	
water	
ice	
plants	

6. Where are black sand beaches common and how are they formed?

7. Describe something you learned about calcite deposition.

8. Metamorphic matching. Match the parent rock with its daughter rock (check yourself with the iPad app).

**Parent Rock**

mudstone

schist

limestone

bituminous coal

sandstone

slate

**Daughter Rock**

slate

gneiss

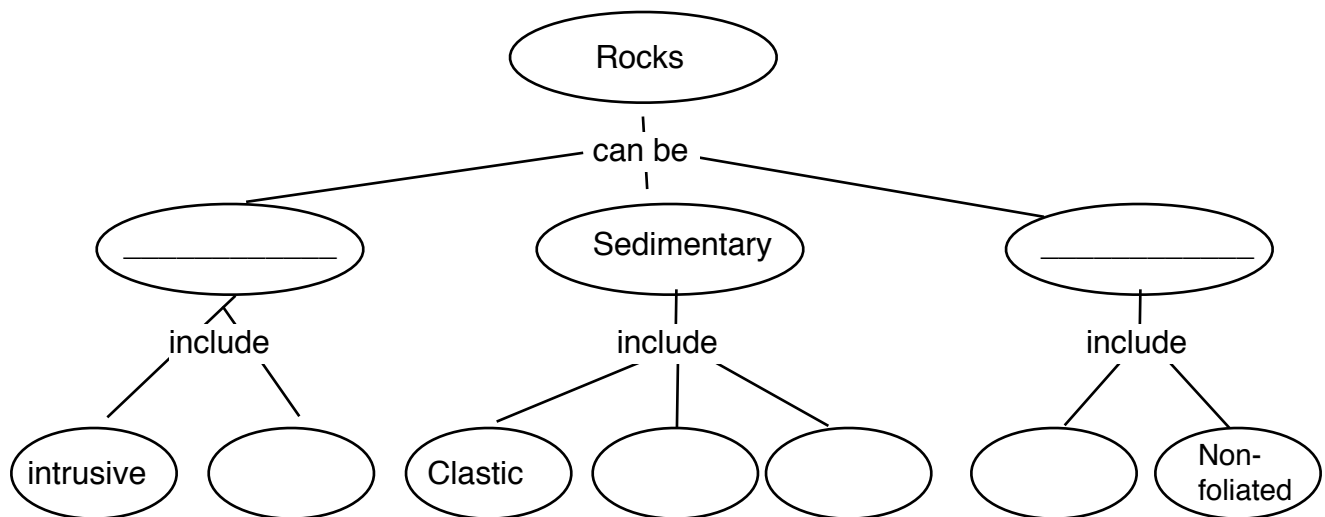
quartzite

marble

schist

anthracite coal

9. Complete the following concept map:



**10. Rock Legend:** Pick one type of rock and write a possible “biography” of the rock as it moves through the rock cycle. Your story should state the type of rock, how the rock formed, and how it might change. Minimum length requirement = 2 paragraphs