**Stem Cell Article JIGSAW Activity**

**Part 1:**

1. **Number off each group 1-6 to assign each part of the article.**
2. **Create a graphic organizer that includes the following titles:**
   1. **About Stem Cells**
   2. **Stem Cell Research**
   3. **Induced Stem Cells**
   4. **Pearson Syndrome**
   5. **Glaucoma**
   6. **Treatment for Spinal Cord Injuries**
3. **Read your assigned part of the article and record important information related to your topic.**

**Part 2:**

1. **Get in to your “Expert” group and agree to a group summary of the information in your part of the article and record this summary in your section of the graphic organizer.**
2. **Go back to your original “Home” group and each member will take turns presenting their summaries for each part of the article. Record information in your graphic organizer during your expert discussions.**

**Part 3:**

**TO TURN IN!! Read the following question and answer IN COMPLETE sentences, using the F.A.T. Question strategy.**

1. **F**lip the question: Turn the question into a statement
2. **A**nswer the question: use the statement to answer the question, in a COMPLETE sentence.
3. **T**hree facts to back up your answer: prove your answer by providing 3 supporting facts.
4. Your answer should be about a paragraph in length (about 5 sentences!)

* **Question:** How could stem cells allow the body to heal itself?
* <https://www.sciencenewsforstudents.org/article/stem-cells-secret-change>
* Stem Cells Article

Article Questions

* **Section 1**

1. What is the function of red blood cells?
2. What are stem cells?
3. Why does the medical community find stem cell science so exciting?

**Section 2**

1. Name one location in the human body where stem cells are found.
2. Blood stems cells can develop into what types of cells?
3. What is the difference between adult and pluripotent stem cells?
4. Why makes embryonic stem cells controversial?
5. How are adult stem cells limited in their potential?

**Section 3**

1. What did Shinya Yamanaka discover?
2. List three advantages to induced pluripotent stem cells over other types.
3. After Yamanaka’s discovery, how have scientists used her technique? What has it helped them to learn?

**Section 4**

1. What is a syndrome?
2. Describe 1 symptom of Pearson syndrome. What does it typically lead to?
3. What is the goal of Anne Cherry’s research?

**Section 5**

1. Explain how glaucoma can lead to blindness.
2. What is the function of the retina?
3. What is Ahmad trying to study?
4. How might stem cells help reverse the damage caused by glaucoma?

**Section 6**

1. What is the spinal cord and what is its function?
2. What happens when the spinal cord is injured?
3. Describe Nick Jeffery’s experiment with dogs. What types of cells did he use and what was he trying to do?
4. Were his treatments successful? Explain your answer.