LSC 101 Creativity Quiz (to be taken at the beginning and end of the semester)

1. People who are “exceptional” creators have which characteristic associated with them?
   1. **Lots of productivity (e.g. many pieces of artwork)**
   2. Natural born “gift”
   3. Never asking questions, but rather “going with their instinct”
   4. Absent-mindedness
2. When considering the stages of creativity we know:
   1. During the preparation stage you to make connections between different concepts and topics
   2. The illumination stage is where a lot of tweaking and thinking occurs
   3. **A product is polished through critical thinking during the verification stage**
   4. During the incubation stage you gather a lot of information
3. Scientific creativity:
   1. **Can center around an idea or a product**
   2. Is seen only with individual efforts, never team efforts
   3. Is original and unique, never building off of other work
   4. Is minimized with logic and testing that occurs with the scientific method
4. Creative work can be analyzed using intellectual standards. Which of the following is an intellectual standard?
   1. **Appropriateness (goodness of fi between the constraints of the problem and the properties of the solution)**
   2. Breadth (recognizing insights in more than one side of a question)
   3. Fairness (treating all sides alike without reference to one’s own feelings or interests)
   4. Adhering to the scientific method
5. When considering the habits of creative or original thinkers, research has shown that creative people:
   1. Tend to start a project as soon as they are assigned it
   2. Tend to be late to parties and never punctual in general
   3. **Start a project, and then stop and tend to think about it in the back of their mind before picking it up again**
   4. Tend to work on one project at a time and perfect that one project before moving on to the next
6. Creativity can start with an inspiration but can also include:
   1. Connecting and combining things that aren’t obvious
   2. Fixing things
   3. Having the right habitat or environment for resources
   4. **All of the above**
7. Which of the following is **TRUE** regarding scientific creativity?
   1. **Hypotheses and theories are creative ideas**
   2. Such creativity is “free” from the constraints of the scientific method and testing
   3. Such creativity is planned and never accidental
   4. All of the above
8. Read the following scenario and then choose which statement **is TRUE**.

*A single mom was frustrated that she could not attend her son’s basketball games and decided to take action. She talked with her boss and proposed working from 7 pm until 9 pm on game days on her computer at home on game days so she could attend her son’s events.*

* 1. **Yes, this shows solid creative thinking**
  2. No, but it may show critical thinking
  3. Maybe there is creative thinking, but I need more information to determine this

1. Read the following scenario and then choose which statement is **TRUE.**

*A girl who never could reach objects high on a shelf designed a pull and grasping object that could be attached to the end of a yard stick. She would lift the yard stick to the desired shelf and control the designed object in such a way that it could grab the desired object. It worked well overall, but every once in awhile, the device wouldn’t tighten up fully around the object and the object would be dropped (and sometimes break!) The girl’s older brother commented that this device reminded him of a dinosaur toy he had when he was younger. The girl remembered that toy but explained that her designed product was modified differently in order to adjust for different sized objects to grab.*

* 1. **Yes, this shows solid creative thinking**
  2. No, but it may show solid critical thinking
  3. Maybe there is creative thinking, but I need more information to determine this

1. Read the following scenario and then choose which statement is **TRUE**.

*Your friend is tired of hearing the same things on the news all the time. It doesn’t matter what station is on, it all the sounds the same to her. She decides to boycott the news and writes opinion pieces in the newspaper voicing her complaints. She vows not to listen to the news again until there is a change in the format.*

* 1. Yes, this shows solid creative thinking
  2. **No, but it may show solid critical thinking**
  3. Maybe there is creative thinking, but I need more information to determine this

1. Read the following scenario and and applying the intellectual standards of critical and creative thinking, choose which statement is **TRUE.**

*An artist offered her services to an area of downtown that had recently been rioted. The area was full of broken glass and debris. She offered to paint a beautiful mural on one of the boarded up window to bring color to the area.*

* 1. This shows solid creative thinking only
  2. This shows solid critical thinking only
  3. **This shows both creative thinking and critical thinking**

1. Open Ended Question
   1. Describe what it means to be creative. Are scientists creative? Justify your answer. (pre-semester)
   2. Describe the role that creativity plays in science (post semester) **Scientists design experiments and propose hypotheses, both of which are of original thinking (independent thought). Scientific creativity focuses on collaboration, building off of other people’s work, and always employing logic and testing to the investigation.**