|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Inventor | Grade | Invention |  |  | Scoring |  |  |  | Comment |
|  |  |  |  | Originality | Inventing Process | Invention Effectiveness | Practicality of the Invention | Need for the Invention | Total |  |
| 1 |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |

Scoring Guide: 10 = Excellent 8 = Very Good 6 = Good 4 = Fair 2 = Needs Improvement

**ORIGINALITY:**

* How much creativity went into the invention?
* How challenging was the problem solved?
* Did the inventor develop a unique, unusual, or clever solution to the problem?

**INVENTING PROCESS:**

* How well did the inventor convey the steps taken to go from concept to invention and were the steps logical?
* Was the process well documented in the inventor's log book (Young children may use pictures or dictate information to someone)?
* Is there a clear explanation of the steps taken, including a description of the problem or goal, resources used, obstacles or failures, reasons for choice of materials, final design, and testing?
* Was credit given to those who helped?
* What did the inventor do to find out if her or his idea was unique? (This should yield an age-appropriate response: a young child might ask a number of people; an older child should explore catalogs, stores and related companies; a high school student might search the internet or even a patent database.)

**INVENTION EFFECTIVENESS:**

* Does the invention solve the problem that was selected?
* Does it do what it is supposed to?
* Does it work even better than expected? (Note that you may be looking at a scaled-down model due to space limitations.)
* Does it solve other problems, too?

**PRACTICALITY OF THE INVENTION:**

* What advantages and disadvantages does the invention have compared to existing objects or methods that might solve the same problem?
* Is the inventor knowledgeable about these alternative solutions?
* How much thought was given to safety, ease of use, and choice of materials?

**NEED FOR THE INVENTION:**

* How important is the problem solved by the invention?
* Who benefits from it, many, few, or only the inventor?
* Does it serve a disadvantaged group, like the handicapped, the elderly, or animals? Is the invention more or less friendly to the environment than currently available products?