<u>iThink Activity</u>

Objectives:

1) Participate in discussion about thinking skills and processes.
2) Self-assess personal ability levels:  creative, critical problem solving, leader, group, work.
3) Generate ideas to resolve a problem.
4) Describe and illustrate apps to improve thinking skills in areas of personal need.
5) Create a product to be shared with an authentic audience.
6) Create and use a rubric to evaluate a product.

Materials:

"stellar thinking" list, list of thinking skills, temperature page,  iThink acitivty page, black construction paper, white crayons, blank index cards (cut in half), glue sticks, scissors, colored pencils

Directions:

1. Discuss thinking skills collection [Thinking Skills].  Discuss "stellar thinking" [Thinking Habits].

2. Complete self-evaluation: "thinking temp" page w/ colored pencil.

4. Begin iThink Activity:

   a)  Identify areas of personal need – left column of iThink page.

   b)  Explain/present sample product and create rubric.

   c)   Generate ideas for apps.

      – Focus on description and then name the app something "appy".
      – Think about what the thinking skill or habit IS and what you'd need to do it BETTER.

   d)  Create a symbol for the app – sketch in tile on activity page

5. Follow directions to create "iThink Phone" model.

# S.C.A.M.P.E.R. Skills
## The thinking skills we use when we need to be creative - when we think of ideas, make improvements, and create solutions to problems!

## SUBSTITUTE
To take one thing or part away and put something else in its place.

## Combine
To put two <u>or more</u> things or ideas together <u>to create something new</u>.

## Adapt
To change something significantly so it can be used in a specific situation.

## MODIFY
To make a small, usually decorative, change to something.

## Magnify
To make some<u>thing</u> or some <u>idea</u> bigger or more.

## Minify
To make some<u>thing</u> or some <u>idea</u> smaller or less.

## Put To Other Uses
Use something in a way that it wasn't meant to be used.

## Eliminate
To remove some<u>thing</u> or a part of some<u>thing</u> or idea without replacing it.

## rearrange
To move the parts of something around without losing or adding any parts.

## Reverse-esreveR
To change something so that what it does or the way it works is backwards/opposite.

Other creative thinking skills:

## Visualize     Elaborate     Exaggerate     Synthesize

*Mrs. Spurlock & Miss Kelly – October, 2013*

# Critical Thinking Skills

Critical Thinking is the thinking we use when we need to figure something out, work with information, or solve a problem. The list below is not all... there are more!

## COMPARE
Identify similarities or differences between items.

## Classify
Arrange objects or information into groups based on similarities.

## Prioritize
Create an order for information or ideas so that the most important is identified.

## Separate
Break information or ideas into component parts to isolate their attributes.

## Hypothesize
Suggest an idea or theory, often about the "why or how" of an event.

## Symbolize
Generate a simple (usually drawn) representation of an idea or event.

## Associate
Find connections or related elements between ideas or situations.

## Analyze
Examine carefully, especially the essential parts of an object or information.

## Evaluate
Judge the worth or value of an object, product, or idea based on criteria.

Need more? OBSERVE   Clarify   Question   Investigate   Generalize
Draw Conclusions   Error-finding   Prioritize   Interpret   Problem Solving Steps

# Stellar Thinkers

Don't give up easily.    ★

Use thinking skills on purpose & carefully

Use all the time they're given & use it well.    ★

Get many, varied, and unusual ideas.

Elaborate on their thinking.

Enjoy challenges.    ★

Think information is valuable.

Remember information easily.

Are good observers.

Enjoy struggling with a problem/idea.

Judge themselves before, during, and after their work.

Make connections between information.

Know that there are improvements that can be made.
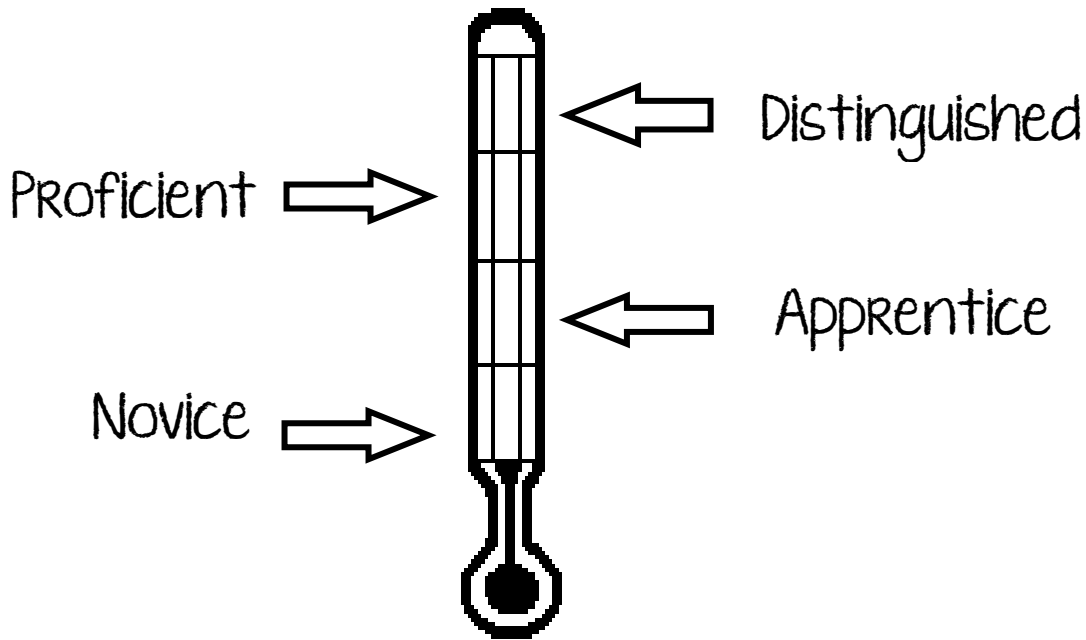
Prefer thinking, not guessing.

Like the journey of learning new things.

Are OK with being uncertain about new things.    ★

Set goals (& change them when needed).

# Think Temps:
## Taking my mental "temperature"

Distinguished

Proficient

Apprentice

Novice

| Novice | Apprentice |
|---|---|
| "I'm <u>new</u> at this. I'm <u>still learning</u> how to do this. I'm also learning that there are many <u>ways</u> to do it and <u>times</u> when I might use it. I <u>need help</u> to do this well. I've probably been doing this for <u>less than a year</u>." | "I'm getting <u>more comfortable</u> with this. It feels familiar, but I still need <u>help</u> with it sometimes. I haven't learned how to do it <u>independently</u> yet or how to <u>transfer</u> it into my other work. I've probably been doing this for at least <u>a year</u> now. " |
| **\* Proficient \*** <br> "I <u>do not need help</u> to do this well. I am <u>independent</u> and <u>accurate</u> at least 90% of the time. I can do it in <u>many situations</u> and can <u>transfer</u> it into my regular classroom. I've most likely been doing this for well <u>over a year</u>. " <br><br> Becoming proficient is our target! | **Distinguished** <br> "I'm not just doing this <u>accurately</u> and <u>independently</u>, but I've <u>developed new ways</u> to do this. I am <u>known by others</u> to be outstanding at this and others often come to me for assistance. This skill or information is <u>part of who I am</u> and I bring it with me into other areas and topics. I've been doing this for <u>many years</u>." |

Name: _____     Date: _____

# Taking My Temperature

### What kind of creative thinker am I?

Do I generate many ideas?
Do I generate unusual ideas?
Do I generate varied ideas?
Do I turn my ideas into products?
Do I visualize my products?
Do I predict possibilities?
Am I inventive?

_____
_____
_____
_____

### What kind of critical thinker am I?

Do I organize my thinking?
Do I make analogies?
Do I draw conclusions?
Do I search for causes & effects?
Do I compare & contrast info./ideas?
Am I good at analyzing?
Am I good at prioritizing?

_____
_____
_____
_____

### What kind of Problem Solver am I?

Do I study the problem family?
Do I clearly define the problem?
Do I brainstorm many solutions?
Do I use criteria to make decisions?
Do I explore many options?
Do I follow steps to solve problems?

_____
_____
_____
_____

### What kind of leader am I?

Do I follow as well as lead?
Do I consider other view points?
Do I inspire others into action?
Do I focus the team?
Do I appreciate the efforts of others?
Do I communicate well?

_____
_____
_____
_____

### What kind of collaborator am I?

Do I accept & value ideas of others?
Do I encourage/support others?
Am I a good listener?
Do I participate energetically?
Do I ask good questions?

_____
_____
_____
_____

### What kind of worker am I?

Do I use my time wisely?
Do I use all the time I've given?
Do I plan my time before I begin?
Do I manage materials well?
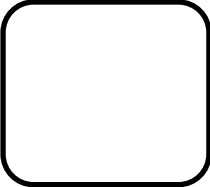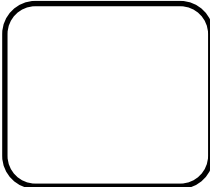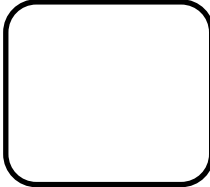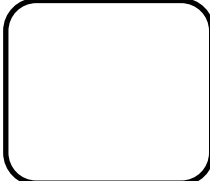Do I put forth my best effort?
Do I seek challenge?

_____
_____
_____
_____

Name: _____   Date: _____

# iTHINK

Directions: In the space to the left, create a list of thinking skills or habits – to begin, identify those which you feel you need to improve upon (aim for 4). In the space to the right, invent an "app" that you think would help train you (or others) to get better at that particular thinking skill. Give it a name and describe what it does, how it works, etc. Finally, create a quick sketch of the app tile for that app. When you've created at least _____ apps, you can create your iThink device!

| Thinking Skills / Habits I Can Improve On | Name and Description of New App (be specific about how it will help you to build that thinking skill) | Sketch of App Tile |
|---|---|---|
| _____ | _____<br>_____<br>_____<br>_____ | |
| _____ | _____<br>_____<br>_____<br>_____ | |
| _____ | _____<br>_____<br>_____<br>_____ | |
| _____ | _____<br>_____<br>_____ | |

Do you have more iDeas? (hahahah) If so – use the back side!

# Model of iThink product: