138 Science and Mathematics Formative Assessment Classroom Techniques (FACTs)

1- A&D Statements ⊗✦
2- Always, Sometimes, Never ⊗✦
3- Agreement Circles ⊗✦
4- Annotated Student Drawings ⊗
5- BDA Drawings★
6- Card Sorts ⊗✦
7- Claim Cards ★
8- Collaborative Clued Corrections (CCC) ⊗✦
9- Chain Notes ⊗
10- C-E-O-SE ★
11- Comments Only Marking ⊗✦
12-Commit and Toss ⊗✦
13- Comparison Overlap Probes ★
14- Concept Attainment Cards ⊗✦
15- Concept Card Mapping ⊗✦
16- Concept Cartoons ™ ⊗✦
17- Concept Mix Up Probes ★
18- Confidence Levels ★
19- Create The Problem ⊗
20- Cross-Cutter Cards ★
21- CSI- Color, Symbol, Image ★
22-Data Match ⊗
23- Diagnostic Collections ★
24-Directed Paraphrasing ⊗
25- Enhanced Multiple Choice ★
26- Every Graph Tells a Story ⊗
27- Every Day Mystery Stories ★
28- Example-Non-Example ⊗
29- Explanation Analysis ⊗
30- Extended Sticky Bars ★
31- Eye Contact Partners ★
32- Fact First Questioning ⊗✦
33- Familiar Phenomenon Probes ⊗
34- Feedback to Feed Forward ⊗✦
35- Fingers Under Chin ★
36- First Word- Last Word ⊗
37- Fish Bowl Think Aloud ⊗
38- Fist to Five ⊗✦
39- Focused Listing ⊗
40- Four Corners ⊗✦
41- Four Corners Jigsaw ★
42- Frayer Model ⊗✦
43- Friendly Talk Probes ⊗✦
44- Gallery Walk ★
45- Give Me Five ⊗✦
46- Group Frayer Model ★
47- Group Talk Feedback ★
48- Guided Reciprocal Peer Questioning ⊗
49- Homework Card Sort ★
50- Hot Seat Questioning ⊗✦
51- Human Scatter Graphs ⊗✦
52- I Think- I Re-Think ★
53- I Think- We Think ⊗
54- I Used to Think ___ But Now I Know ___ ⊗✦
55- Informal Student Interviews ⊗
56- Interest Scale ⊗
57- Is It Fair? ⊗
58- Juicy Questions ⊗
59- Justified List ⊗✦
60- Justified True- False Statements ⊗✦
61- K-W-L Variations ⊗✦
62- Learning Goals Inventory ⊗✦
63- Learning Intentions ★
64- Let’s Keep Thinking ★
65- Lines of Agreement★
66- Look Back ⊗✦
67- Magnetic Statements ★
68- Matching Cards ⊗ ★
69- Mathematician’s Ideas Comparison ⊗
70- Missed Conception ⊗
71- More A- More B Probes ⊗✦
72- Muddiest Point ⊗✦
73- No Hands Questioning ⊗✦
74- Odd One Out ⊗✦
75- Opposing Claims Probes ⊗✦★
76- Overgeneralization Probes ⊗
77- Paint the Picture ⊗
78- Partner Speaks ⊗✦
79- Pass the Question ⊗✦
80- Pass the Problem ⊗
81- P-E-O Probes ⊗✦
82- Peer-to-Peer Focused Feedback ⊗
83- A Picture Tells a Thousand Words ⊗✦
84- Picture This ★
85- Plus- Delta ★
86- PMI- Plus, Minus, Interesting ★
87-POMS- Points of Most Significance ○●
88-Popsicle Stick Questioning ○●
89- Prefacing Explanations ○
90-PVF-Paired Verbal Fluency ○●
91-Question Generating ○●
92- Ranking Tasks ★
93- R-A-Q Feedback ★
94- Recognizing Exceptions ○
95- Reflective Toss ★
96- Refutations ○
97- Representation Analysis ○
98- RERUN ○
99- Response Cards ●
100- Same A- Same B Probes ●
101- Scientists’ Ideas Comparison ○
102- Sequencing ○●
103- Slide Sort ★
104- Sticky Bars ○●
105- STIP- Scientific Terminology Inventory Probe ○
106- Strategy Harvest ●
107- Strategy Probe ●
108- Student Evaluation of Learning Gains ○●
109- Student Interviews ●
110- Success Indicators ★
111- Synectics ○
112- Talk Moves ★
113- TAR- Target, Analogy, Reflection ★
114- Terminology Inventory Probe ○●
115- Ten-Two ○●
116- Think Alouds ●
117- Thinking Logs ○●
118- Think-Pair-Share ○●
119- Thought Experiments ○●
120- Three Minute Pause ○●
121- Three-Two-One ○●
122- Thumbs Up, Down and Sideways ★
123- Traffic Light Cards ○●
124- Traffic Light Cups ○●
125- Traffic Light Dots ○●
126- Traffic Light Sliders ★
127- Two Minute Paper ○●
128- Two or Three Before Me ○●
129- Two Stars and a Wish ○●
130- Two Thirds Testing ○●
131- Vernacular Probes ★
132- Volley Ball, Not Ping Pong ○●
133- VDR- Vote, Discuss, Revote ★
134- Wait Time Variations ○●
135- What Are You Doing and Why ? ○●
136- What Did I Learn Today ★
137- Whiteboarding ○●
138- Word Sort ● ★

○ In Science Formative Assessment- 75 Practical Strategies for Linking Assessment, Instruction, and Learning (Keeley 2008, 2nd Edition In Press 2014)
● In Mathematics Formative Assessment- 75 Practical Strategies for Linking Assessment, Instruction, and Learning (Keeley and Tobey 2011)
★ In Science Formative Assessment- 50 More Practical Strategies for Linking Assessment, Instruction, and Learning (In Press 2014)