164 Science and Mathematics
Formative Assessment Classroom Techniques (FACTs)

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

Key:

⊙ In Science Formative Assessment- 75 Practical Strategies for Linking Assessment, Instruction, and Learning, 2nd Edition 2016 (Keeley 2008)

★ In Science Formative Assessment- 50 More Practical Strategies for Linking Assessment, Instruction, and Learning (Keeley 2015)

✚ In Mathematics Formative Assessment- 75 Practical Strategies for Linking Assessment, Instruction, and Learning (Keeley and Tobey 2011)

★ In Mathematics Formative Assessment- 50 More Practical Strategies for Linking Assessment, Instruction, and Learning (Keeley and Tobey 2017)

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