Suggested Experiments for Applying the Scientific Method

Feel free to choose one or come up with your own:

1. Which reaches the ground first when dropped: a heavy ball or a light ball?
2. Can a green plant live without sunlight?
3. Does cold or hot water take more space?
4. Which freezes first: hot or cold water?
5. Can you package a fresh egg, so when you drop if from six feet onto cement, it will not break?
6. If I mix different combinations or water paints, what colors will I get? Use yellow, red, blue or black. (Marcelo)
7. If you have a ping pong ball and a hard ball, which takes more wind to power to move?
8. Do roly-poly’s like to live in a dark or light area.
9. Do worms prefer damp or dry conditions?
10. Why do dogs stick their tongues out?
11. Which freezes first? Salt water or fresh water.
12. Which heats faster in the sun? Soda, milk, water.
13. Can you mix oil and water? What happens when you add soap?
14. Do bananas turn brown faster inside a plastic bag?
15. What makes potato “eyes” grow?
16. Does 7-Up help cut flowers live longer?
17. Can you blow square bubbles?(Brittney)
18. Will heat travel up the handle of a plastic or metal spoon?
19. Why is my shadow longer at 5:00 in the afternoon than at 1:00 in the afternoon?
20. Why does metal get hot when it is rubbed?
21. What happens when you mix vinegar and baking soda?
22. Why does a pin float in water?
23. Why do objects seem to bend water?
24. Do rocks float?
25. Do snowballs float? (Tori)
26. Why do stars twinkle? (Lexi)
27. Does swirling water going down the drain always go in the same direction? (Wyatt)
28. What would happen if I put a glass cup over a burning candle? (Karla)
29. Does salt affect the rate that ice cubes melt? (Wyatt) (Karissa)
30. How come ice cubes stick to your tongue? (Dakota)
31. When you put a cup upside down and push it into the water, why doesn’t the cup fill? (Tori)
32. Do you have taste buds under your tongue? (Hayli)
33. Why does blood taste like metal? (Bianca)
34. If you flip a quarter 100 times will it be 50 times tails and 50 times heads? (Wyatt)
35. How can we make dirty pennies shine (Ashley M)
36. Which bubble pops first? Hot or cold? (Jay)
37. Can I make a fire extinguisher? (Emma)
38. Will a frozen balloon pop? (Reese)(Steven)
39. Will an egg float in salt water or fresh water? (Melissa)
40. Can you light a bulb with a balloon? (Joshua)
41. In winter, why do lights twinkle in the distance? (Lexie)
42. Which melts first? An ice cube on black paper or on white paper? (Dan)(Lucas)
43. Why do ukulele strings make different sounds? (Morgan)
44. What will the size of the crater be when different sized meteorites hit the ground? (Corwin)
45. How does a boat or ship carrying thousands of pounds of cargo float while that same cargo would sink to the bottom of the ocean if dumped overboard? (Madeline)
46. Why does water stay in a glass tube that is turned upside-down? (Noah)
47. How does a light bulb work? (Matthew)
48. Will hot sauce help make pennies shine? (Mikala)
49. Does ice melt faster by itself in sugar, salt or in sand? (Allison)
50. Will a candle burn without air? (Madeline)
51. How does soap work? (Tiffany)
52. Can water crush a can? (Ryan R)
53. Why do pomegranate seed jump when you fry them? (Lydia)
54. How does dry ice melt? (Christian)
55. What happens to pepper in water when you add soap? (Anthony)
56. Is the water you drink acidic or alkaline? (Meriah)
57. How does a Hovercraft work? (Ryan R)
58. Can a pin or paperclip float on water? (Jalen)
59. Can you stick a needle in a balloon and it will not pop? (Brandon)
60. Are fingerprints alike? (Bri)
61. How can you get a peeled hardboiled egg into a small bottle and not touch it? (Meriah)
62. Do all pomegranates have the same number of seeds? (Julia)
63. Does what you see influence what you taste? (Miles)
64. Which will bounce the longest: A big ball or a small ball? (Sammy)
65. Does a banana ripen faster inside a bag with another fruit? (Darren)
66. Do all people have a blind spot? (Morgan)
67. How does the length of pendulum effect the time of the swing? (Max)
68. Can you see sound? (Ryan)
69. Do raisins float best in plan or carbonated water? (Jordan)
70. Can I make light bulb light with my hair and a plastic comb? (Jed)
71. Why does water appear on the inside of you car window on a cold or rainy day? (Jennifer)
72. Will a raw egg and a boiled egg spin alike? (Morgan)
73. Can an egg float in water by adding salt? (Tori)
74. How does a heavy airplane fly through the air? (Dylan)
75. If you can’t smell or see, can you still taste? (Caleb)
76. How can I write an invisible message with lemon juice (Sidney)
77. If you put an apple and other fruit in a Ziploc bag, does the apple help the other fruit ripen? (Olivia)
78. Which burns faster, a crumbled piece of paper or folded piece of paper? (Brock)
79. How long does it take for a sugar crystal to grow? Does adding color change the crystal’s growth? (Caleb)
80. Can you make fresh water out of salt water? (Olivia)
81. Will a frozen candle and a room temperature candle burn at the same rate? (Grace)
82. Which stain remover will remove stains better from your shirt?