## talkSTEM Choice Board

*This worksheet is hyper-linked, click on **bold text** to access*

### Science

1. Calculate your heart rate as you do different activities and compare. **Click here** to learn how. Which activity increased your heart rate the most? The least?

2. **Watch this video** about routines. Then design your own invention that would help you get ready in the morning. Think about all the steps you take to get ready.

3. Build Challenge: Who can build the tallest structure using 30 pieces of spaghetti, 1 meter of masking tape and string, and 1 medium sized marshmallow?

### Tech

4. **Watch this video** about optical illusions. It’s your turn to create your own optical illusion using math. **Click here for examples and ideas.**

### Engineer

5. **Click here** to go to the walkSTEM Explorer Math Games website. Pick at least one game to play - either Adventures or Watch This, Do That.

### Math

6. **Watch this video** about the physics in dance. Now design your own dance that includes the angles: 0, 90, and 180 degrees. Share your dance with family and see if they can guess the angle!

7. **Click here** to take a Reading Speed Test. Try reading different text and see how your reading speed changes. How is the website measuring your reading speed?

8. Create your own Marble Run using any found items. See how quickly marbles go through. What would allow them to move faster? Slower? **Watch this video for inspiration.**

9. Let’s mix some colors to paint! On your palette experiment with mixing paint ratios. For example try mixing 1 part white with 1 part red. Then try 1 part white with 2 parts red. Notice a difference? Continue mixing with different ratios for all the colors you have.

10. **Watch this video** about finding the slope of a staircase. Now it’s your turn to find the slope of a ramp, handrail or staircase near you.

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We are grateful to our partners and collaborators including (superscripts refer to box numbers above):

2. UT Dallas,
3. Design Connect Create,
4. UT Southwestern Medical Center,
5. Dallas Black Dance Theatre