

**GRADES 3-4**

**TALL TALES STEM CHALLENGES**

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| **Time/Period** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** |
| **8:30-9:00**  Introduction/  Warm Up | - Name Continuum  - Fun facts  - [Musical Straws](http://www.girlstart.org/item/hands-on-wednesday-70)   * Scissors * Straws   - [Balloon Speakers](http://www.girlstart.org/item/hands-on-wednesday-82)   * Balloon | - Two Truths & a Dream  - [Sandwich Bag Dart Board](http://scienceofeverydaylife.com/students/pdfs/sandwich_bag.pdf)   * Sandwich Bags (pint/quart-sized) * Sharpened pencils * Water | - Connect the Story - [Pop Rocks Expander](http://www.stevespanglerscience.com/lab/experiments/poprocks)  * Pop Rocks * Balloons * Funnel * Soda Bottles (12-16 oz) | - Shoe Pile Mingle  - [Soda Can Jump](http://www.girlstart.org/item/hands-on-wednesday-73)   * Soda Can * Mug |
| **9:00-9:15**  Watch Story | Johnny Appleseed [YouTube Video](https://www.youtube.com/watch?v=484AJlOnOnc&list=PLtlah04yok_vFOAY6gy46gneslyJyBrNL&index=1) | Pecos Bill [YouTube Video](https://www.youtube.com/watch?v=9QIOZAsCxZ8) | John Henry [YouTube Video](https://vimeo.com/59767453) | Sluefoot Sue [YouTube Video](https://www.youtube.com/watch?v=NkQW-zF7A-g&list=PLaIX_leurmKr_bbSaVFs4kQTHi_etxM6b) |
| **9:15-9:20**  Set up activities/  Hand out Materials/  Brainstorm ideas on paper | - Sticks from outside  - Yarn  - Scissors  - Large Tub of water  - Apples | - Plastic grocery bags (4 per person/pair)  - Plastic chair | - Empty cardboard rolls  - Tape, scissors, glue  - Tape measure | - Brown construction paper sheets  - Glue and scissors  - Cardboard pieces  - Weights (pennies & books) |
| **9:20-10:25**  Build STEM Challenge | John Chapman Apple Raft Challenge | Pecos Bill Plastic Bag Lasso Challenge | John Henry’s Tube Train Challenge | Sluefoot Sue Log Cabin Challenge **(9:20-10:00)**  Guest Speaker - **ROBOTICS TEAM PRESENTATION (10:00-10:30)**  Finish up Sue Log Cabin Challenge **(10:30-11:15)** |
| **10:25-10:45**  Wrap up Challenge | Testing & Challenge Discussion (Lab Sheets) | Testing & Challenge Discussion (Lab Sheets) | Testing & Challenge Discussion (Lab Sheets) |  |
| **10:45-11:15**  Additional STEM Challenge/  Programming/Coding | [www.code.org](http://www.code.org) | [Building Pool Noodle Structures With Toothpicks](http://littlebinsforlittlehands.com/building-pool-noodle-structures-with-toothpicks/) (create a city) [www.code.org](http://www.code.org) | [www.tynker.org](http://www.tynker.org)  - Made student usernames and passwords |  |
| **11:15-11:30** (Clean up) | [Discovery Education Video](https://app.discoveryeducation.com/search?N=18342+4294867563&browseFilter=d_Service:DE%20Streaming,) | [Time Warp Trio: 2105](https://app.discoveryeducation.com/player/view/assetGuid/9C848169-CE9D-4019-BBC5-3B8C41329976) | [Magic School Bus: Under Construction](https://app.discoveryeducation.com/search?N=18342+4294867563&browseFilter=d_Service:DE%20Streaming,#N=4294867563&No=0&Ntk=All&Ntx=mode+matchallpartial&Ns=p_wtd%7C1) | [Mesopotamia: Nomads to Farmers](https://app.discoveryeducation.com/player/view/assetGuid/3029357E-9BB7-40D5-93E2-EFFBDCA2AFFE)  [Alexander Graham Bell](https://app.discoveryeducation.com/player/view/assetGuid/EBDA5D42-F75E-4F53-9E02-F87289EB7625) |