***Lesson Plans for the Week of: 4/24/17 Teacher: Hough Course: Physics Period: 3***

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| Elements of  a Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/  Focus/  Essential  Question | PH.4a,b;5e  --understand the forces which act on a rocket | PH.4,5d  --understand how various of Newton’s Laws of Motion impact aspects of rocket motion | PH.4a,b;5d  --correctly label major parts of rocket | PH.4a,b;5d,e  --correctly label the parts of a rocket trajectory and describe what the rocket does in each part  --interpret label of rocket engine | PH.4a,b  Types of Recovery systems  National Association of Rocketry (NAR) safety rules |
| Lesson/Act.  Type of Presentation | Go over forces which act on flying object  Begin rocket construction  Differentiation: additional specific guidance on rocket construction, per student need | Identify the ways that Newton’s Laws of Motion impact rocket motion  Rocket construction  Differentiation: additional specific guidance on rocket construction, per student need | Identify rocket parts, highlight certain parts  Rocket construction  Differentiation: additional specific guidance on rocket construction, per student need | Label parts of rocket trajectory; identify parts of rocket engine and its label  Rocket construction  Differentiation: additional specific guidance on rocket construction, per student need | Identify types of recovery systems and differentiate between them  Highlight particular NAR safety rules  Continue rocket construction  Differentiation: additional specific guidance on rocket construction, per student need |
| Evaluation | Teacher observation; student questions; student progress on rocket | Teacher observation; student questions; student progress on rocket | Teacher observation; student questions; student progress on rocket | Teacher observation; student questions; student progress on rocket |  |
| Extension/  Homework | None | None | None | none |  |

Materials:

Monday: Estes rocket curriculum, part 1; Rocket kit; glue, ruler, plastic cement, sandpaper

Tuesday: Estes rocket curriculum, part 2; Rocket kit; glue, ruler, plastic cement, sandpaper

Wednesday: Estes rocket curriculum, part 3; Rocket kit; glue, ruler, plastic cement, sandpaper

Thursday: Estes rocket curriculum, part 4; Rocket kit; glue, ruler, plastic cement, sandpaper

Friday: Estes rocket curriculum, part 5; Rocket kit; glue, ruler, plastic cement, sandpaper; epoxy