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**Are You Up For**

**Careers and Technology Foundations** is a complementary course that **challenges** you to design and build projects that enhance the learning you are doing in your core subjects. In **CTF: Construction and Design**, you will **acquire, apply and adapt** your learning to develop your interests and aptitudes in career related fields and promote working both independently and with others.

**CTF is exploring interests, passions and skills while making personal connections to career possibilities**

* I explore my interests and passions while making personal connections to career possibilities.
* I use skills/technologies associated with occupational areas.
* I follow safety requirements associated with occupational areas and related technologies.

**CTF is designing, creating, appraising and communicating responses to challenges**

* I problem solve in response to challenges.
* I design in response to challenges.
* I adapt to change and unexpected events.
* I make decisions in response to challenges.
* I appraise product(s), performance(s) or service(s) created in response to challenges.
* I appraise the skills/technologies I use in response to challenges.
* I communicate my learning.

**CTF is working independently and with others while exploring careers and technology**

* I describe how my actions affect learning.
* I develop skills that support effective relationships.
* I collaborate to achieve common goals.

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| **Challenges for Alexander Forbes CTF Construction and Design Students** |
| **Grade 5** | **Grade 6** | **Junior Year** | **Senior Year** |
| Design and Build an Electro-Magnetic Crane | Design and Build an Airplane | Design and Build a Box with a Hinged Lid | Create a poster communicating a Safety Rule |
| Build a model “Delta Dart” Airplane | Design and Build a Wooden Toy Truck | Design and Build an Organizer |
| Design and Build a Boomerang (Airfoil) | Design and Build a project from a list that students can choose from. | Design and Build a project from a list that students can choose from. |
| Build a hot dog stick | Design and Build a CO2 powered dragster. |