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| **St Therese’s Primary School- Technology in the Curriculum** |
| **Connect & Wonder** | **Discover & Learn** | **Create & Share** | **Rethink & Reflect** |
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| **Curriculum Match:** Science |
| **Digital Technology Focus:** Minecraft |
| **Stage:** 3 | **Grade:** 6 |
| **Outcomes****ST3-8PW -ST** Explains how energy is transformed from one form to another.**ST3-9PW-ST** Investigates the effects of increasing or decreasing the strength of a specific contact or non-contact force. |
| **Technical Vocabulary for Science****Force**– a push, pull or twist **Friction**– a contact force, objects touch **Gravity**– a non-contact force that attracts objects to the centre of the earth **Energy**– causes change **Kinetic energy**– the energy in moving things **Transfer of energy**– energy can be transferred from one object to another **Energy transformation**– energy can change from one form to another, eg kinetic (movement) energy to heat energy **Efficiency**– how effectively energy is transformed | **Technical Vocabulary Technology**Redstone, screenshot…students to suggest suitable words for Minecraft world |
| **Activity**1. Within a Minecraft world, students design something that demonstrates the use of force or demonstrates energy transformation. The creation can be as simple or complex as students would like it to be.
2. Students explain their creation identifying relevant concepts and technical language. Options for sharing the thinking behind their creation include
* Take screen shots and use *Screen sketch* in the *Windows Ink Workspace* to label and write an explanation
* Use screenshots in Windows 10 photo app to create a movie.
* Add signposts within Minecraft world
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| **Resources/Links**<https://education.minecraft.net/> |
| **Curriculum Adjustments - Support**Display a class generated list of ideas for students that are struggling to decide on what to build. Identify one concept for the student to focus on and buddy them with a ‘Minecraft Master’ to draft an intitial plan. | **Curriculum Adjustments - Extension**Students may work in one world and find a way to connect their individual creations using energy sources. |
| **Additional Challenges**Challenge students to complete this Stage 3STEM task in a Minecraft world.[**http://bit.ly/2pa9Jai**](http://bit.ly/2pa9Jai)**.**  |