



STEM Online NZ offers complete resources that cover all the learning required in the following NCEA Achievement Standards...

## Science

AS90940: Mechanics (Level 1) AS91171: Mechanics (Level 2) AS91173: Mechanics (Level 2) AS91524: Mechanics (Level 3) AS90944: Chemistry (Level 1) AS91164: Chemistry (Level 2)

# **Mathematics**

AS91028: Tables, Equations and Graphs (Level 1) AS91027: Algebra (Level 1)

TO REGISTER <u>CLICK HERE</u>



# **Digital Technologies (Level 1):**

AS91886: Human Computer Interaction. In English and Te Reo Māori

AS91887: Compression Coding. In English and Te Reo Māori

AS91885: Search and Sort Algorithms

AS91880: Media Design

# Digital Technologies (Level 2):

AS91890: Conduct an inquiry AS91897: Advanced processes AS91898: Computer science concept AS91899: Present a summary

- Read more about these at the <u>TKI website</u>.
- Register by <u>clicking here</u>.



 The organisation of the resources is similar for each of these standards. To help you navigate the resources we will show how AS90940 Mechanics is set out.

### 

### Click on the images below to get started.

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Welcome to Physics

Physics

1. Introduction to Motion

2. Speed

3. Acceleration



4. Motion Graphs



5. Introduction to Forces





7. Pressure



8. Energy





9. Work and Power

10. Review

• A short video introduces the presenters.



### Click on the images below to get started.

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2. Speed



1. Introduction to Motion

3. Acceleration



4. Motion Graphs



5. Introduction to Forces



6. Friction













10. Review

- Each achievement standard starts with an overview of the key concepts and content.
- You can study these in any order you like.



### Click on the images below to get started.

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• The final 'review' module contains a study guide, study notes for each section, Q & As, exam papers and useful links



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2. Speed



Welcome to Physics

1. Introduction to Motion

3. Acceleration



4. Motion Graphs



5. Introduction to Forces



6. Friction



7. Pressure









- Each concept is organised into a set of resources and activities.
- The screenshots on the following slides show the organisation for Unit 8: Energy.



### Click on the images below to get started.

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7. Pressure

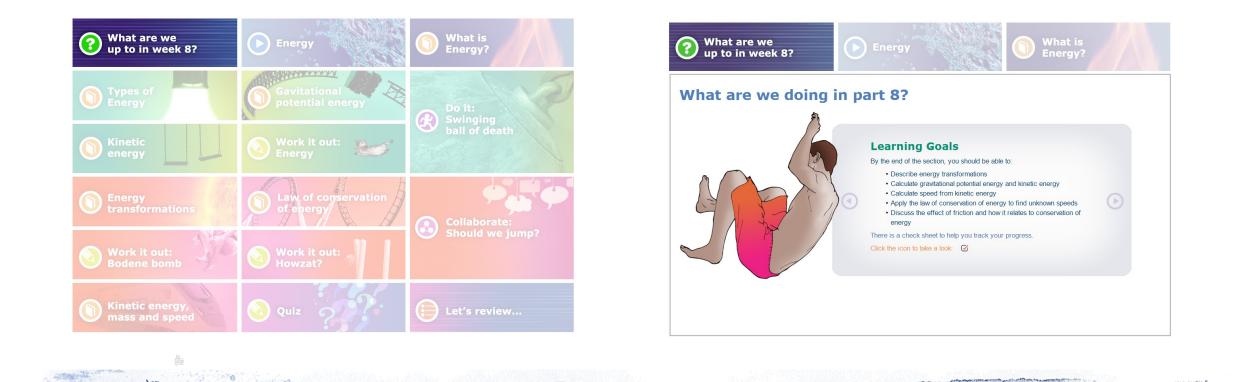












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• Each unit starts with an overview of goals and activities.

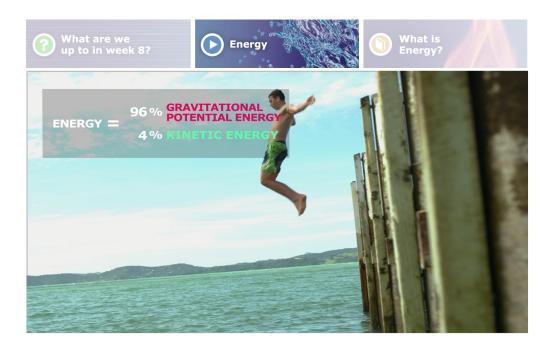
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• This is followed by an introductory video of the big idea and key concepts of the unit.

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 There are lots of practice activities that you can do in any order you like. A tick appears in each box as you complete it.

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• Real-world experiments are supported by internet resources that reinforce the concept.

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MINISTRY OF EDUCATION TE TĂHUHU O TE MĂTAURANGA

STEM Online NZ also works with the Ministry of Education to produce learning resources for the following Digital Technologies Achievement Standards...