

YEAR 7 UNIT ONE : STAGE 1 TASK CARDS

ME AND MY COMMUNITY



SURF COAST
SECONDARY COLLEGE

MATHS

How does our number knowledge and mental strategies help us solve maths problems?

M1

Information

How can you use basic mental strategies to solve simple equations quickly?

M2

Knowledge

How can you use mental strategies and mathematical laws to solve problems effectively?

M3

Know How

What are the most effective mental strategies that you can use and how do they work ?

M4

Wisdom

What are some multi-step mental strategies that you can use to solve more complex problems and how do they work?

M1: INFORMATION STAGE

How does our number knowledge and mental strategies help us solve maths problems?

TO DO before completing the final task.

1

Research each of these terms and provide a definition in your own words

- Commutative Law
- Associative Law
- Distributive Law

Use some of these resources to help you with your definitions. The definitions should be written in your maths summary book. (Take a photo and post it to study turf)

[Click here to access your resources for the M1 task card](#)

Your **FINAL TASK**

1

Using the knowledge that you have gained about the different mathematical laws complete these tasks. Make sure you show the different steps in your working.

[Question 1](#)

[Question 2](#)

(10 questions from each minimum)

To complete this task you need to post to study turf:

- ★ Photo of your maths summary book with all three definitions
 - Commutative Law
 - Associative Law
 - Distributive Law
- ★ Questions 1 and 2 completed, at least 10 problems from each question. **(with working out)**

What does success look like?

I am able explain important laws in mathematics, and how I can apply them to my work.

M2: KNOWLEDGE STAGE

How can you use mental strategies and mathematical laws to solve problems effectively?

TO DO before completing the final task.

1

Research each of these terms and provide a definition in your own words

- Commutative Law
- Associative Law
- Distributive Law

Use some of these resources to help you with your definitions. The definitions should be written in your maths summary book. (Take a photo and post it to study turf)

[Click here to access your resources for the M2 task card](#)

What does success look like?

I am able explain important laws in mathematics, and how I can apply them to my work.

I am able to explain mental strategies I use when solving simple mathematical problems.

Your **FINAL TASK**

1

Using the knowledge that you have gained about the different mathematical laws complete these tasks. Make sure you show the different steps in your working.

[Question 1](#)

[Question 2](#)

2

In question 3 you can use any mental strategy complete 5 questions, show your working out in each step. Choose one question that you can solve using two different mental strategies. Explain each step and choose which strategy is the easiest for you.

[Question 3](#)

To complete this task you need to post to study turf:

- ★ Photo of your maths summary book with all three definitions
 - Commutative Law
 - Associative Law
 - Distributive Law
- ★ Questions 1 and 2 completed, at least 10 problems from each question. **(with working out)**
- ★ 5 Questions from Question 3 with working out. One problem that can be solved using different mental strategies and explanation of the easiest strategy.

M3: KNOW HOW STAGE

What are the most effective mental strategies that you can use and how do they work ?

TO DO before completing the final task.

1

Research each of these terms and provide a definition in your own words

- Commutative Law
- Associative Law
- Distributive Law
- Working in Stages
- Multiplying by multiples of 10
- Dividing by multiples of 10

Use some of these resources to help you with your definitions. The definitions should be written in your maths summary book. (Take a photo and post it to study turf)

[Click here to access your resources for the M3 task card](#)

What does success look like?

I am able explain important laws in mathematics, and how I can apply them to my work.

I am able to explain mental strategies I use when solving simple mathematical problems.

Your **FINAL TASK**

1

Using the knowledge that you have gained about the different mathematical laws complete these tasks (Minimum of 8 in each question). Make sure you show the different steps in your working.

[Question 1](#)

[Question 3](#)

2

In question 4 you can use any mental strategy complete 5 questions, show your working out in each step.

Choose one question that you can be solved using two different mental strategies.

Explain each step and choose which strategy is the easiest for you.

[Question 4](#)

To complete this task you need to post to study turf:

- ★ photo of your maths summary book with all three definitions
 - Commutative Law
 - Associative Law
 - Distributive Law
 - Working in Stages
 - Multiplying by multiples of 10
 - Dividing by multiples of 10
- ★ Questions 1 and 3 completed, at least 8 problems from each question. (with working out)
- ★ 5 Questions from Question 4 with working out. One problem that

M4: WISDOM STAGE

What are some multi-step mental strategies that you can use to solve more complex problems and how do they work?

TO DO before completing the final task.

- 1 Research each of these terms and provide a definition in your own words
 - Commutative Law
 - Associative Law
 - Distributive Law
 - Working in Stages
 - Multiplying by multiples of 10
 - Dividing by multiples of 10

Use some of these resources to help you with your definitions. The definitions should be written in your maths summary book. (Take a photo and post it to study turf)

[Click here to access your resources for the M4 task card](#)

What does success look like?

I am able explain important laws in mathematics, and how I can apply them to my work.

I am able to explain and rate the mental strategies I use when solving mathematical problems.

Your **FINAL TASK**

- 1 Using the knowledge that you have gained about the different mathematical laws complete these tasks (Minimum of 8 in each question). Make sure you show the different steps in your working.

[Question 1](#)

[Question 3](#)

- 2 In question 4 you can use any mental strategy to complete 5 problems, show your working out in each step. Choose one question that you can be solved using two different mental strategies. Explain each step and choose which strategy is the easiest for you.

[Question 4](#)

- 3 Rate each mental strategy from most useful to least useful. Include a short explanation for each mental strategy (pros and cons)

To complete this task you need to post to study turf:

- ★ photo of your maths summary book with all three definitions
 - Commutative Law
 - Associative Law
 - Distributive Law
 - Working in Stages
 - Multiplying by multiples of 10
 - Dividing by multiples of 10
- ★ Questions 1 and 3 completed, at least 8 problems from each question. (with working out)
- ★ 5 Questions from Question 4 with working out. One problem that can be solved using different mental strategies and explanation of the easiest strategy.
- ★ Rating of the 6 mental strategies with explanations included.

SCIENCE

What are the skills needed to observe, record and communicate safely in science?

Substances in any form are composed of varied but simple materials

S1

Information

I will learn how to compare and classify how different materials can change using observation.

S2

Knowledge

I will learn that mixtures, including solutions, contain a combination of substances. Some changes are reversible and some irreversible.

S3

Know How

I understand that substances combine to form mixtures and will learn how to separate mixtures.

S4

Wisdom

I will learn the difference between elements, compounds and mixtures.

S1: INFORMATION STAGE

I will learn how to compare and classify how different materials can change using observation

TO DO before completing the final task.

- 1 Learn about matter [here](#)
- 2 Learn about the differences between solids, liquids and gases and how they are defined [here](#).
- 3 Complete the 'classification activity' that can be downloaded from the [FUSE weebly](#) on the task card resources page in U1 Science.

What does success look like?

I am able to identify matter and determine the difference between solids, liquids and gases.

I am able to observe, describe and discuss how things are made up of different substances

Your **FINAL TASK**

NB: Take photos throughout completion of the task card.

- 1 Go to the trolley and collect a sample of sand and salt. Download the Observations table from the task card resources page on the [FUSE weebly](#).
- 2 Find at least 1 other student completing this task card and are ready to complete this step. Giving yourself 10 minutes observe and record what you see with your naked eye. With your partner discuss if you think each object is made up of one substance or many substances.
- 3 Repeat step 2, this time looking at the corresponding magnified images on the [FUSE weebly](#). What is difference between magnified images and what you see with the naked eye? What does this suggest about things that exist in our world?
- 4 Put all of your observations along with the corresponding pictures into the table provided and submit to Studyturf.

S2: KNOWLEDGE STAGE

I will learn how to classify solids, liquids and gases

TO DO before completing the final task.

- 1 Download the States of Matter worksheet from the U1 Science task card resources on the [FUSE weebly](#). Work your way through and complete the questions.
- 2 Learn about the differences between solids, liquids and gases and how they are defined [here](#).
- 3 Complete the States of Matter 2 worksheet activity on the [FUSE weebly](#).

What does success look like?

I am able to correctly categorise, solids, liquids and gases.

I can generate my own definitions and show I understand the difference between the states of matter.

Your **FINAL TASK**

- 1 Produce definitions, in your own words, of a solid, liquid and a gas.
- 2 Download the 'solids, liquids and gases' worksheet from the [FUSE weebly](#).
- 3 With a partner sort the different types of matter into a classification table with 3 columns, solid, liquid and gas.
- 4 Research whether your predictions were correct. Highlight and re-classify any that were incorrect. Write a reflection on your results and how you think a partner helped you to classify the list of matter.

S3: KNOW HOW STAGE

I will learn about the difference between ice, steam and water and what do you know about them?

TO DO before completing the final task.

Think about it! Before looking at any resources,

1 record your understanding of the differences and similarities of the following: Ice, Water & Steam in a table.

2 Learn what an atom is [here](#).

3 Learn about the states of water [here](#).

What does success look like?

I understand that water can be a liquid, a solid or a gas.

I am able to visualise how water changes states

Your **FINAL TASK**

Now that you have watched the video on the states

1 of water, think about it! Update your table with any new understandings of the differences and similarities of Ice, Water & Steam.

2 Complete the 'drawing states of matter' activity, available from the [FUSE weebly](#).

3 Draw a flow diagram (using an app of your choice) illustrating the differences between ice, water and steam, including how temperature effects changes of state in terms of their particles.

4 Publish your 'task' with all components to StudyTurf.

S4: WISDOM STAGE

I will learn that mixtures, including solutions, contain a combination of substances.

TO DO before completing the final task.

- 1 Learn about matter [here](#).
- 2 Learn about the differences between solids, liquids and gases and how they are defined [here](#).
- 3 Watch a video on separating mixtures [here](#).
- 4 Complete the 'classification activity' that can be downloaded from the [FUSE weebly](#) on the task card resources page under science.

What does success look like?

I am able to identify matter and determine different states of matter.

I am able to describe matter using scientific terminology.

I understand that a matter is made up of different elements

Your **FINAL TASK**

- 1 Collect samples of sea water and sand from the trolley. Describe what you see (using scientific language) with the naked eye. Place the objects under the microscope and describe what you see (using scientific language)
- 2 Predict what individual elements you believe make up the solid and the liquid you choose to investigate.
- 3 Download and complete the 'Investigating Substances' activity from the [FUSE weebly](#).
- 4 Present your findings with an app of your choice, matching the photos with the correct descriptions.



SAFETY CAUTION

Please be aware of your surroundings when completing the practical component of this task.

ENGLISH

What skills do I need to identify the purpose of a persuasive text and successfully persuade someone to my point of view?

E1

Information

I will be able to define some persuasive techniques.

E2

Knowledge

I can identify the purpose of a text and the techniques used to persuade

E3

Know How

I can identify the audience and purpose of a text and explain how persuasive techniques are used

E4

Wisdom

I can teach others to identify and use persuasive techniques for a particular audience.

E1: INFORMATION STAGE

I will be able to define some persuasive techniques.

TO DO before completing the final task.

1

[Watch this video](#) that introduces you to some persuasive techniques.

Your **FINAL TASK**

1

[Click through the Prezi](#) and write down as many persuasive techniques as you can identify in the final clip.

Use an App (Popplet, SimpleMind+, Mind Vector)

2

to create a mind map of at least 5 different persuasive techniques. Include a definition or example for each technique.

What does success look like?

I can define some persuasive techniques.

I identify some persuasive techniques in advertising.

E2: KNOWLEDGE STAGE

I can identify the purpose of a text and the techniques used to persuade

TO DO before completing the final task.

1 [Watch this video](#) that introduces you to some persuasive techniques.

2 Read through the [persuasive language flip cards](#).

What does success look like?

I can identify the purpose of a piece of persuasive writing and an advertisement.

I can identify and define a variety of persuasive techniques

Your **FINAL TASK**

1 [Click through the Prezi](#) and write down as many persuasive techniques as you can identify in the final clip.

2 Use an App (Popplet, SimpleMind+, Mind Vector) to create a mind map of at least 5 different persuasive techniques. Include a definition or example for each technique.

3 Read [this letter to the editor](#) and [watch this advertisement](#). For each piece, write down the purpose (what is it trying to persuade you of?) of these examples and any persuasive techniques that they use. Display this information in a table.

E3: KNOW HOW STAGE

I can identify the audience and purpose of a text and explain how persuasive techniques are used

TO DO before completing the final task.

1 [Watch this video](#) that introduces you to some persuasive techniques.

2 [Click through this Prezi](#)

Your **FINAL TASK**

1 Use an App (Popplet, SimpleMind+, Mind Vector) to create a mind map of at least 5 different persuasive techniques. Include a definition or example for each technique as well as a definition of audience and purpose of texts.

2 Read [this letter to the editor](#) and [watch this advertisement](#) and [look at this picture](#). Write down the purpose (what is it trying to persuade you of?) and the audience (specifically who is it directed at?) of these examples and record any persuasive techniques that are used. Display this information in a table.

What does success look like?

I can identify the purpose and audience of a persuasive text.

I can identify and explain a variety of persuasive techniques.

E4: WISDOM STAGE

I can teach others to identify and use persuasive techniques for a particular audience.

TO DO before completing the final task.

1 [Watch this video](#) that introduces you to some persuasive techniques.

2 [Click through this Prezi](#)

3 Find a definition of audience and purpose.

Your **FINAL TASK**

1 [Click through the Prezi](#) and write down as many persuasive techniques as you can identify in the final clip.

2 Use an App (Popplet, SimpleMind+, Mind Vector) to create a mind map of at least 5 different persuasive techniques. Include a definition or example for each technique.

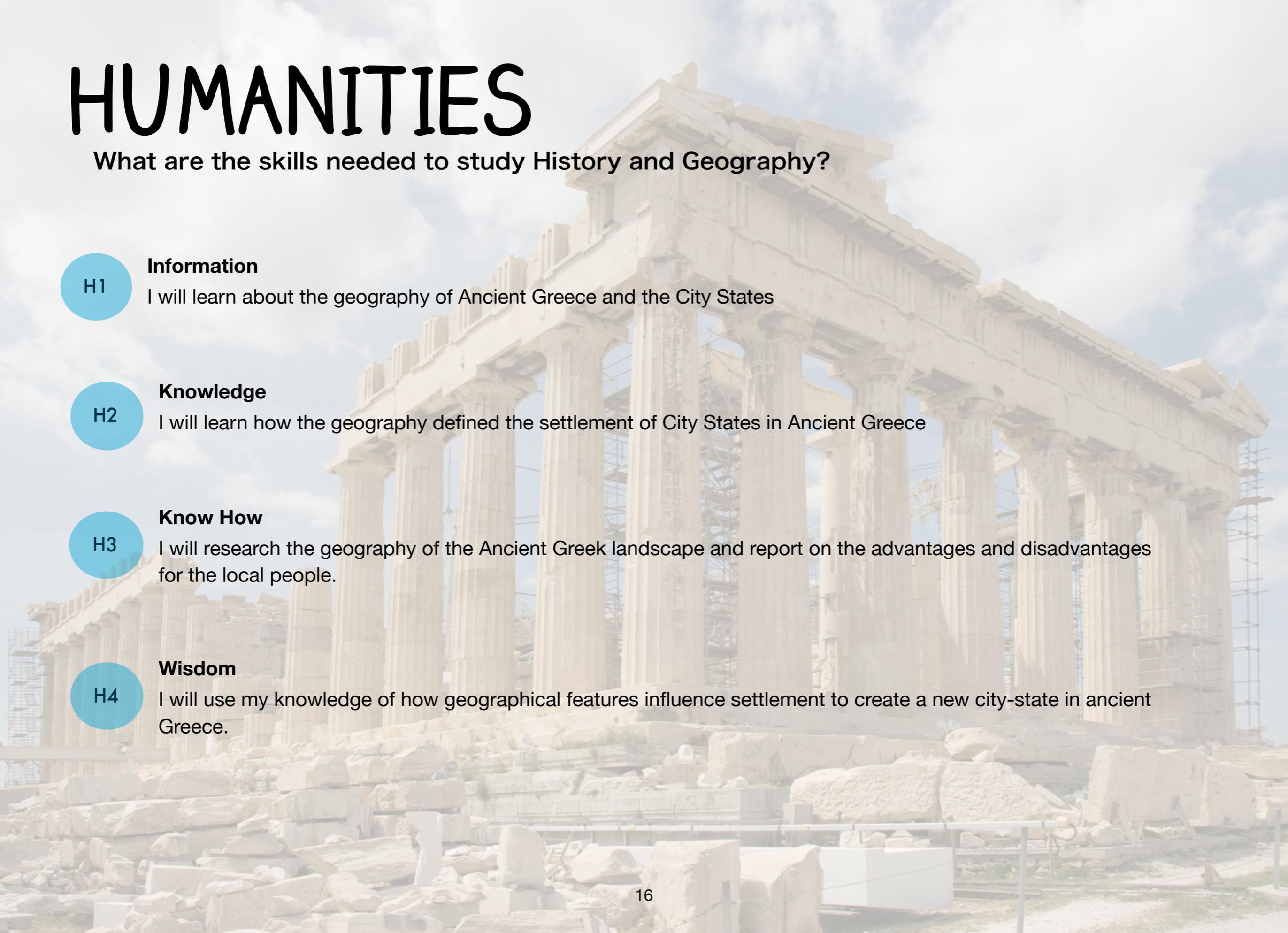
What does success look like?

I can identify the audience and purpose of a text.

I can explain how to identify persuasive language and techniques.

I understand that different persuasive techniques are used depending on the audience and purpose of a text.

HUMANITIES



What are the skills needed to study History and Geography?

Information

H1

I will learn about the geography of Ancient Greece and the City States

Knowledge

H2

I will learn how the geography defined the settlement of City States in Ancient Greece

Know How

H3

I will research the geography of the Ancient Greek landscape and report on the advantages and disadvantages for the local people.

Wisdom

H4

I will use my knowledge of how geographical features influence settlement to create a new city-state in ancient Greece.

H1: INFORMATION STAGE

I will learn about the geography of Ancient Greece and the City States

TO DO before completing the final task.

- 1 Watch the Prezi "[The geography of ancient Greece.](#)" (It can also be found on the Year 7 FUSE website under Humanities Taskcard Resources)
- 2 Go to this [website](#) and explore what the ancient Greek city-states were like. Examine the 5 most powerful city-states.

Your **FINAL TASK**

- 1 Create a presentation about the geography of Ancient Greece. Use a variety of resources to find your information such as photographic libraries Google images, Corbis and Getty

You will need to include:

- Pictures and Maps
- Information about:
 - City States
 - Mountains
 - Rivers
 - Surrounding Oceans
 - Climate

What does success look like?

I am able to identify the characteristics of the Ancient Greece landscape

I know the main city-states of Ancient Greece and their location on a map

H2: KNOWLEDGE STAGE

I will learn how the geography defined the settlement of City States in Ancient Greece

TO DO before completing the final task.

- 1 Watch the Prezi "[The geography of ancient Greece.](#)" (It can also be found on the Year 7 FUSE website under Humanities Taskcard Resources)
- 2 Go to this [website](#) and explore what the ancient Greek city-states were like. Examine the 5 most powerful city-states.

What does success look like?

I am able to explain the settlement patterns of the ancient Greece city-states.

I am able to provide reasons why city-states were settled in certain area in relation to the physical features of the landscape.

Your **FINAL TASK**

Find a map of ancient Greece that shows the city-states.

- 1 Where are the city-states shown on the map located? What settlement pattern can you see? Suggest some reasons for this pattern.
- 2 You are an explorer living in Ancient Greece and you have stumbled upon previously undiscovered land that would be perfect to create a new city state.
- 3 Write a letter to persuade people to travel and settle in your new city-state, include a description of the geographical features and why these features would be beneficial for settling a new city-state. Include some pictures that you have 'taken' (ensure you are using geographical features that were around the time of Ancient Greece)

H3: KNOW HOW STAGE

I will research the geography of the Ancient Greek landscape and report on the advantages and disadvantages for the local people.

TO DO before completing the final task.

- 1 Watch the Prezi "[The geography of ancient Greece.](#)" (It can also be found on the Year 7 FUSE website under Humanities Taskcard Resources)
- 2 Go to this [website](#) and explore what the ancient Greek city-states were like. Examine the 5 most powerful city-states.
- 3 Read [A typical Greek city-state.](#)

Your **FINAL TASK**

- 1 Create a fact sheet about the geography of Ancient Greece. Include a small location map and pictures.
- 2 Research about "Life in Ancient Greece" and create a [PMI chart](#) about living in a City State in Ancient Greece. Make some references to the geography and the physical landscape.
- 3 Create a short presentation about the advantages and disadvantages of living in the area

What does success look like?

I am able to use a variety of resources to learn about the advantages and disadvantages to living in the ancient Greek environment.

I am able to create a presentation to demonstrate my understanding of life in Ancient Greece.

H4: WISDOM STAGE

I will use my knowledge of how geographical features influence settlement to create a new city-state in ancient Greece.

TO DO before completing the final task.

- 1 Watch the Prezi "[The geography of ancient Greece.](#)" (It can also be found on the Year 7 FUSE website under Humanities Taskcard Resources)
- 2 Go to this [website](#) and explore what the ancient Greek city-states were like. Examine the 5 most powerful city-states.
- 3 Read [A typical Greek city-state](#).

What does success look like?

I am able to develop a presentation of an original city-state by taking into account the geographical features of the environment.

I am able to demonstrate my knowledge of sustainable practices to ensure that my new city-state will function well into the future.

Your **FINAL TASK**

Imagine the Surf Coast area back in the time of the Ancient Greeks. Your task is to create a new city-state for ancient Greece using the physical features of the Surf Coast landscape.

- 1 Select the location and draw a map that identifies relevant geographical features. Eg. Spring Creek, Bells Beach, Otways, Great Ocean Road, Mt Duneed.
- 2 Illustrate which parts of the city-state you think should go where. You could do this by; sketch a labelled plan; make a model; paint a picture; create a multimedia presentation, using ICT tool or any other ways you like.
- 3 Explain how your city-state will be sustainable (be able to function on its own resources well into the future)