

تم تحميل هذا الملف من موقع المناهج الإماراتية



*للحصول على أوراق عمل لجميع الصفوف وجميع المواد اضغط هنا

<https://almanahj.com/ae>

* للحصول على أوراق عمل لجميع مواد الصف الثالث اضغط هنا

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* للحصول على جميع أوراق الصف الثالث في مادة تصميم ولجميع الفصول, اضغط هنا

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Introduction to the Design Process

E-safety

Protection against cybersecurity issues



Part A.

It's important to make sure your password is strong.

- ▶ A strong password has:
- ▶ 6 characters or more.
- ▶ letters.
- ▶ numbers.
- ▶ 1 capital letter or more.
- ▶ symbols (@, _ #, \$, %, -, /).

Look at the passwords below.

Which ones are strong? Which ones are weak?

Passwords	Strong	Weak
Cats%run8912		
Pretty20		
Flowers		
pink-Rabit75		
spiderman		

Part B.

Using what you've learnt, create a strong password. _____

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What is design?













Design improved the TV. How did it?

1950s TV	Current TV
Small screen	Big screen

Small screen	Less expensive	Uses a lot of space	Lightweight	Big screen
Expensive	Heavy	Nice to look at	Uses less space	Not nice to look at

Activity 3 Interactive

Look at the pictures. They changed after new designs were created. Draw a line from the picture before, to how it changed.

Before	Now
	
	
	
	
	

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Design evolution



Activity 4

Theory



You are a young designer. What do you think design will look like in the future?

Draw a future car. What features will it have? Write some sentences about it.

My future car is called: _____.

The car has the features below:

1. _____
2. _____
3. _____

How are designs created?



Put the steps below into the correct order. The first one is done. you.

○ The table is built in the factory.

○ Sketches of the table are created.

○ A customer buys the table from the store.

1 Designer thinks of an idea – a table.

○ A 3D model of the table is created on the computer.

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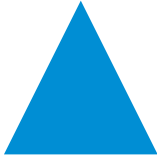
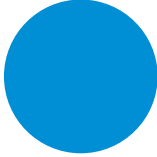

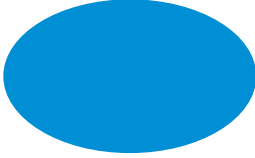

What is the difference between 2D and 3D?



Activity 6








Identify the 2D shapes? Draw a line from the shape to its name.






Shape







Name
Triangle
Ellipse
Circle
Pentagon
Square
Rectangle

Activity 7 *Interactive*

Draw a line from the 2D shape to its 3D shape.

2D shape	
Triangle	
Circle	
Square	
Rectangle	
Rhombus	

3D shape	
Cuboid	
Diamond	
Pyramid	
Sphere	
Cube	



Shapes are used in Maths, Art and Engineering.

Introduction to sketching



Activity 8

Theory



Create 2D (orthographic) designs for an object (e.g. car, shape, table). Use the 2D car sketches from the student book as an example.

Top view

Front view	End view



Sketching is a very important skill in Art and Engineering.

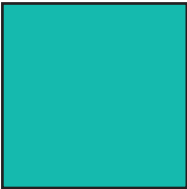
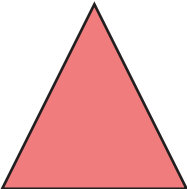
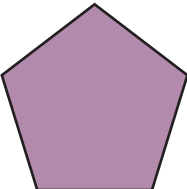



Activity 9

Theory



Change the 2D shapes into 3D shapes. Use one-point perspective.

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Advanced 3D sketching – two-point perspective

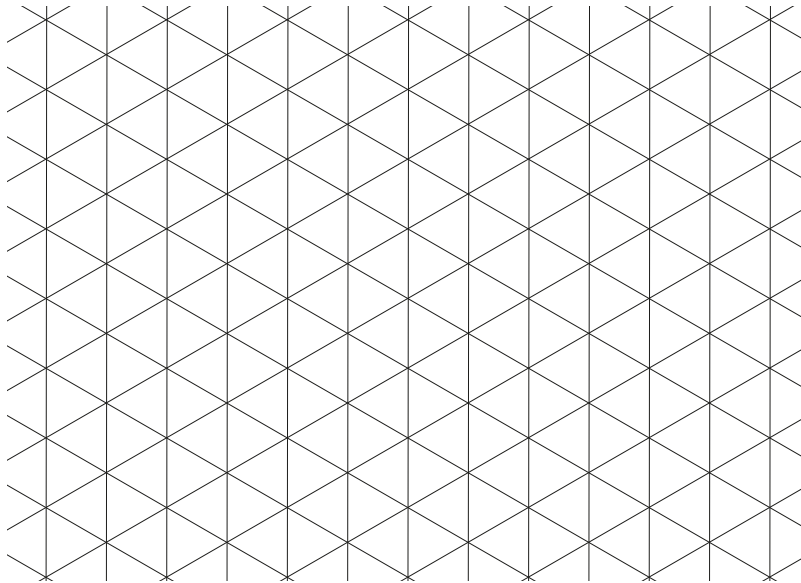


Activity 10

Theory



Create a 3D (isometric) design for a rectangular prism.



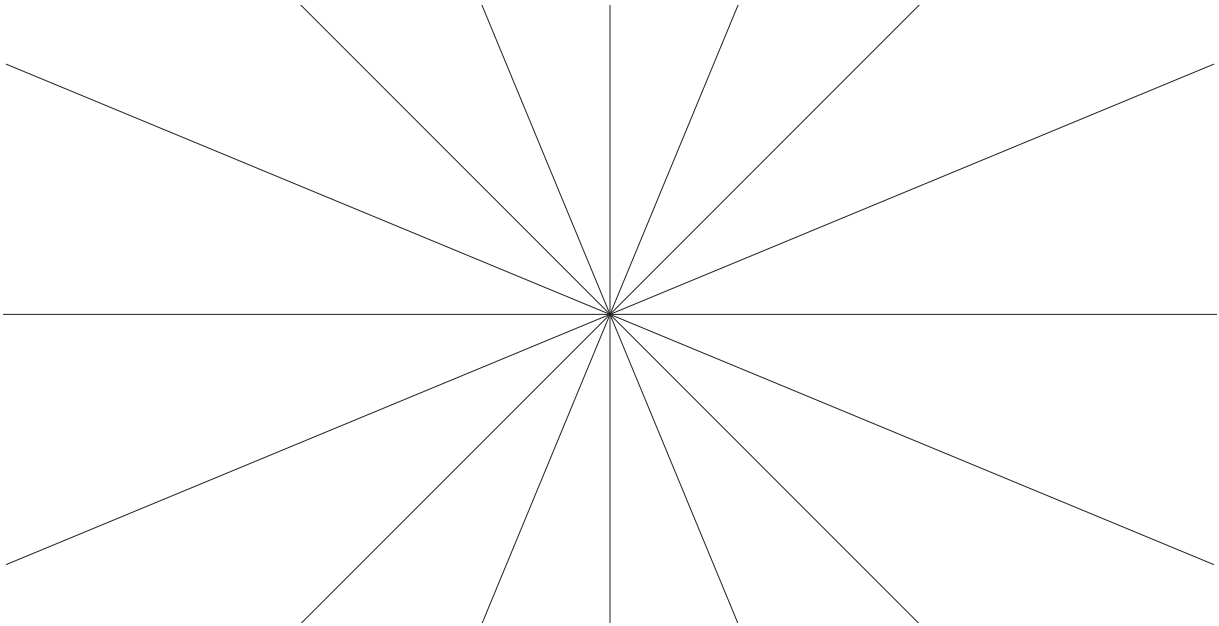


Activity 11

Theory



Create a one-point perspective design of a rectangular prism?



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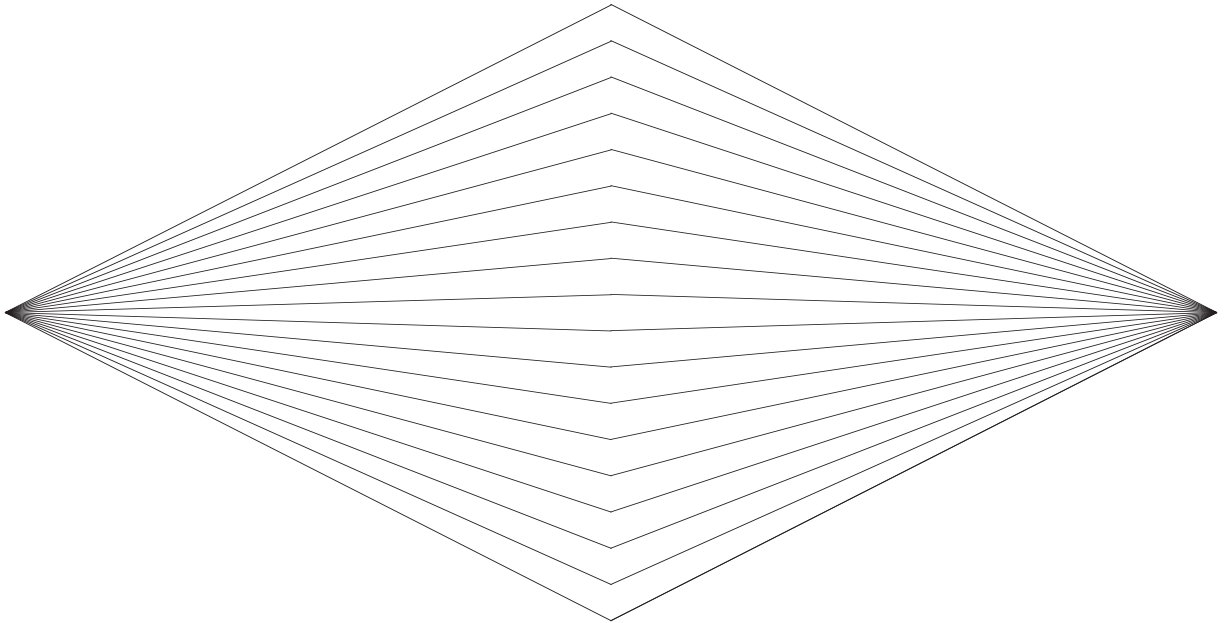
M



Activity 12



Create a two-point perspective design of a rectangular prism.



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Artificial intelligence



Activity 13



Complete the activity below by selecting true or false.

	True	False
Artificial intelligence is made up of 3 main ideas.		
Computers use sensors to learn		
Camera sensors can be used to recognise objects		
Sound sensors are used to measure changes in temperature		
Proximity sensors measure how close something is.		

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Student reflection



Write about what you have learned and enjoyed in this unit.

Three things I have learned:

1. _____
2. _____
3. _____

Two things I have enjoyed:

1. _____
2. _____

Knowledge and skills reflection

I CAN...			
identify the main differences between 2D and 3D shapes.			
draw shapes in one-point perspective.			
draw shapes in two-point perspective.			
I can name the 5 main ideas that AI is made up of.			
Teacher's comments:			

End of unit quiz



Fill in the blanks.

1. The first car was the _____.

- a. the GMC Sierra 1500.
- b. the Model T Ford.
- c. the Benz Patent Motor Car.

2. What does 2D stand for?

- a. One-dimensional
- b. Two-dimensional
- c. Three-dimensional

3. What is the 3D version of a rhombus?

- a. Pyramid
- b. Diamond

4. 2D shapes show only one face.

- a. True
- b. False

5. When sketching, the horizon line is _____.

- a. a point where two lines meet and then go away.
- b. where the sky meets the ground.
- c. a line that is used for drawing.

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