

# Build progress in mathematics one step at a time

Online targeted interventions for ages 10-16









What is Shine Interventions: AMT?	3
Why subscribe to Shine Interventions: AMT?	3
Top features	5
Get in touch1	2



# What is Shine Interventions: AMT?

Shine Interventions: AMT is an e-learning resource that uses data to provide the learning materials you need for targeted interventions. It accelerates learning progress so you can focus on what matters most: your learners.

# Why subscribe to Shine Interventions: AMT?

Shine Interventions: AMT takes a scaffolded, pedagogical approach to bridging learning gaps. Each intervention gradually builds knowledge and progresses through each learning strand only when learners feel confident to do so.

Shine Interventions: AMT houses all your targeted interventions in one place. By using the data you gather with your Access Mathematics Tests (AMT), the platform is able to identify the strands in which individual learners and groups need targeted support, and present you with the necessary resources for your learners' level.

# **How it works**

Learner takes AMT assessment Results highlight the strands they need support in e.g. ratio

You access the targeted materials for their age group for the identified learning strand

You track your learner's progress with the built-in progress quizzes

# Prioritise individual learner needs

Informed by the learners' AMT results, the Individual Intervention Report in Shine Interventions: AMT provides insights on the individual results of your cohort and flags if a learner needs a targeted intervention in a particular strand.

- 1. Identify immediately the specific strands that individuals need support in. Each strand contains several learning sequences (topics)
- 2. Save time on resourcing and only provide support where a learner needs it if a learner is benchmarking at the expected level in, for example, fractions but is performing below expectations in ratio, you can focus your energy on dealing with this specific strand or learning sequences within that strand



# Easily group learners who require the same interventions

The Grouped Intervention Report in Shine Interventions: AMT enables you to quickly identify and determine which strands require additional support for your entire cohort or specific groups and act decisively based on that information.

- 1. Discover the areas in which cohort-wide interventions are needed and adjust your lessons easily
- 2. Seamlessly create your intervention groups according to the strands they need support in

# Track progress over time

At the end of each intervention, administer a learning sequence-specific Progress Quiz to identify progress and any additional support. You can then chart a learner's progress with the built in Progress Quiz Reports.

- 1. Questions are appropriate to the learning level and targeted learning sequence
- 2. Quick to administer the quizzes can be completed within one intervention session
- 3. Test multiple learners or individual learners depending on how many learners require an intervention

# Save time with ready-made resources and guidance

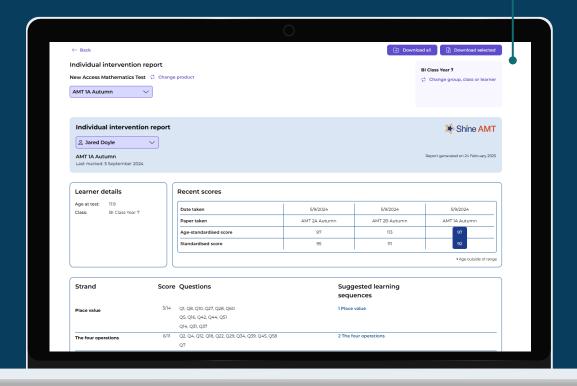
Written by mathematical and pedagogical experts, Shine Interventions: AMT provides targeted intervention resources that are suitable for the mathematics age identified by AMT.

- 1. Interactive teacher presentations downloadable interactive PowerPoint presentations provide a scaffolded approach to teaching, helping learners to understand the core skills before moving on to the next phase of learning
- 2. Worksheets and Activities work through questions with your learners as you provide the targeted interventions. There are also accompanying printable activities for each strand that are pitched at three different levels: easy, medium and hard
- 3. Teaching notes every presentation is accompanied by detailed teaching notes that help with the delivery of the lesson, slide by slide. We also outline the pedagogical thinking behind each intervention and enable every member of staff to teach the interventions regardless of mathematical knowledge

# Top features

# **Enhanced reports**

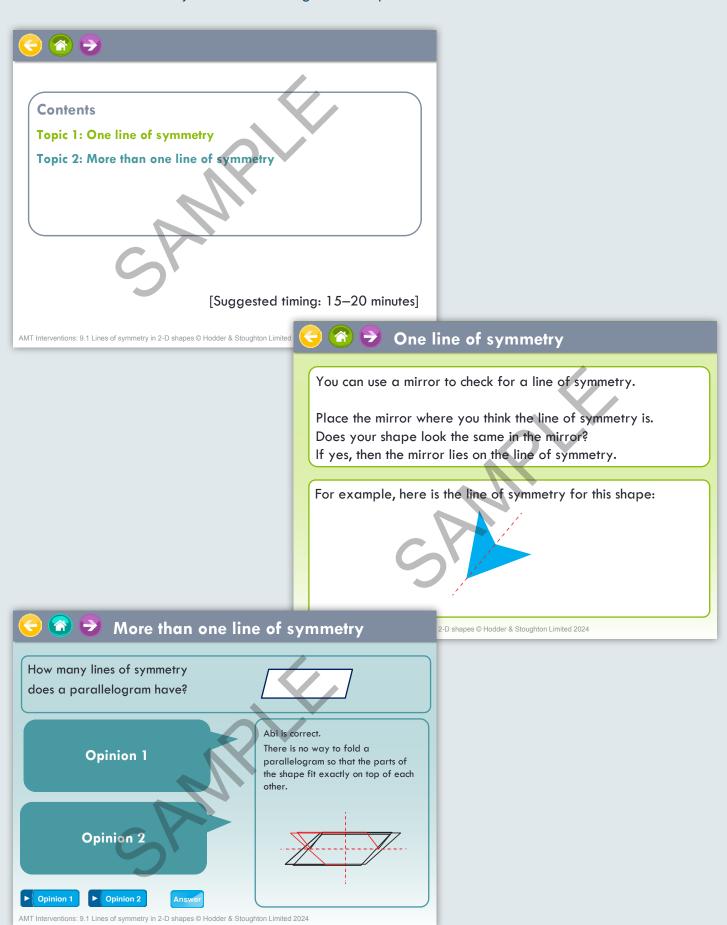
Individual Intervention Report: drill down into gaps specific for each learner



**Grouped intervention report** BI Class Year 7 New Access Mathematics Test Change product AMT 1A Autumn Grouped Intervention Report: **Grouped intervention report** Shine AMT get a cohort-wide AMT 1A Autumn view of learning gaps This report shows learners grouped according to their score in each area of learning Please see the individual intervention report for details specific to each learner. Strand Suggested learning sequence Learner(s) Jared Doyle Annis Eireen 6/14 Tyrone Fay 7/14 Dee Ferdy 7/14 Phelim Frank Aaron Gator 0/14 Kaila Gaye Jackie Mariann

# **Teacher Presentations**

Each learning sequence has an accompanying class-facing PowerPoint presentation that breaks down the subject matter into digestible steps.



# **Teaching Notes**

Each downloadable teacher PowerPoint presentation features notes for most slides to help with in-class delivery. We also provide separate PDFs with detailed background notes that will enable all members of staff to understand the pedegogical approach of the interventions and what each individual learner or group needs to know.

# Shape

# 9.1 Lines of symmetry in 2D shapes

# Presentation - Teaching notes

# Slide 2:

This intervention covers lines of symmetry in 2D shapes. Students are encouraged to identify where lines of symmetry are on 2D shapes, initially using physical manipulatives, if possible (folding paper and using mirrors), and latterly by visualising the lines of symmetry.

On this slide, students consider an isosceles trapezium. shown how the shape can fold along the line of symme another. The slide notes suggest that students are prov for themselves.

This slide illustrates how a mirror can be used to find a notes that teachers may wish to use mirrors, and encountries the lines of symmetry on different shapes, to enhance

Next, the idea of zero lines or one line of symmetry is i and asked to decide whether the shapes have a line of all shapes have a line of symmetry is tackled early on in explain why some shapes have zero lines of symmetry.

# Slide 6:

Now, students are shown a variety of road signs and as Two of the signs have rotational symmetry, but not line the scope of this intervention, and not explicitly explain out the common misconception and offer opportunitie

In this slide, students are shown a square, and attention of symmetry. Again, the slide notes suggest using a pap consolidate their understanding of lines of symmetry.

# Slide 8:

This opinion slide picks up on the common misconcepti Diagrams of a parallelogram folded along a horizontal a again, a suggestion is made in the slide notes to use a r parallelogram has line symmetry because opposite side attention is drawn to shapes like these, which have rot as mentioned earlier, the language of rotation is avoide principle of line symmetry.

Shine Interventions: Access Mathematics Test @ Hodder & St

# Shape

In this activity, students are invited to consider different types of quadrilaterals and identify the number of lines of symmetry for each. A more challenging question, showing a variety of trapezia, is also included, drawing students' attention to the fact that some shapes may have a different number of lines of symmetry dependent on their properties. Again, however, the focus is not on the properties of shapes, but instead on finding lines of symmetry.

## Slide 10:

On this slide, attention is drawn to the common misconceptions students have when identifying lines of symmetry. A diagonal line joining opposite vertices on a rectangle is shown, and students are challenged to explain why it is not a line of symmetry. Next, a line is drawn across a pentagon, splitting the shape into two unequal sized parts; again, students are asked to explain why this is not a line of symmetry. Finally, a shape with rotational, but not reflective, symmetry is shown, with an incorrectly identified line of symmetry, and a discussion is encouraged on why the shape has no lines of symmetry.

# Slide 11:

For students who are confident, there is a final activity, where students identify the relationship between the number of lines of symmetry and the number of sides of a regular polygon. Furthermore, there is a suggestion in the slide notes that students could be challenged to discuss the number of lines of symmetry of a circle.

Shine Interventions: Access Mathematics Test © Hodder & Stoughton Limited 2024

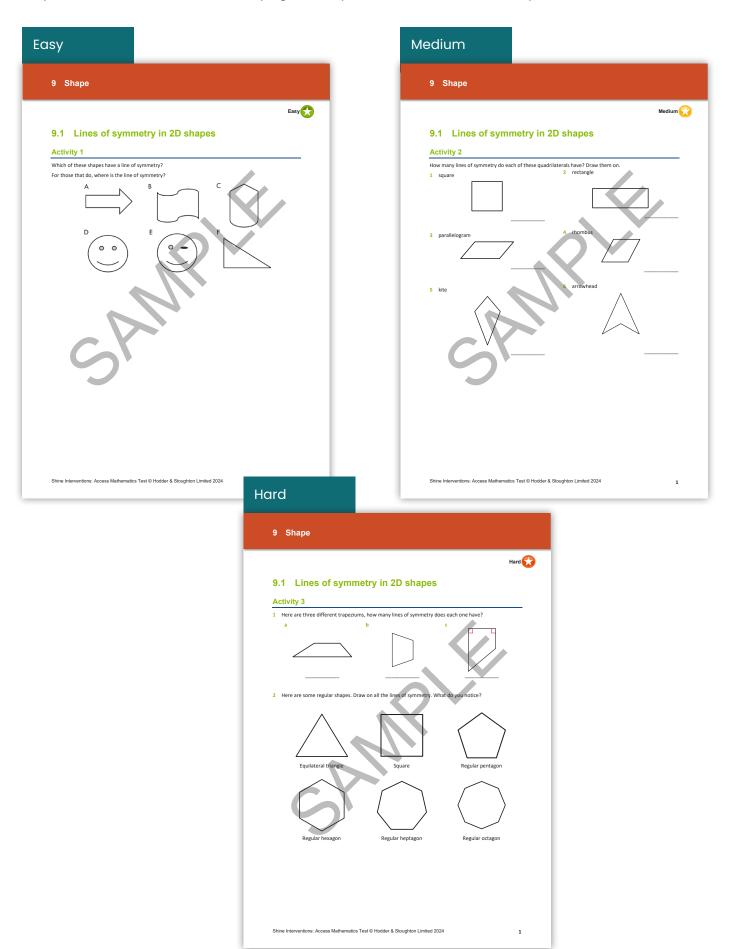
# Worksheets

Each learning sequence has an accompanying worksheet to structure your intervention sessions and see how learners are grasping their needed skills.

		Name:				
10.1 Tables						
Questions <b>1–3</b> refer to the table below.						
The table shows the pets owned by Year 9 stude  Pet Number	of students					
Cat	7					
Dog	4					
Fish	0					
Hamster	2					
Snake	1	10 Statis	stics			
b How many students own a hamster?			the departure and Departure  09:18		lights from London.	
<ul><li>Which pet is owned by</li><li>a 1 student</li></ul>		Madrid	09:45	11:18		
		Berlin	09:52	11:45		
b 0 students?		Lisbon	10:05	12:53		
3 What fraction of students own a hamster? Simplify the fraction.		<ul><li>7 What time d</li><li>a Madrid</li><li>b Lisbon?</li></ul>	loes the flight <b>depa</b>	rt for		
		8 What time d a Berlin	loes the flight <b>arriv</b>	e in		
Shine Interventions: Access Mathematics Test @ Hodo	ler & St	b Paris?				
		9 How much la	ater does the flight	for <b>Berlin depart</b>	t than the flight for <b>Paris</b> ?	
		10 How much e	arlier does the flig	nt for <b>Madrid de</b> r	part than the flight for Berlin?	

# **Activities**

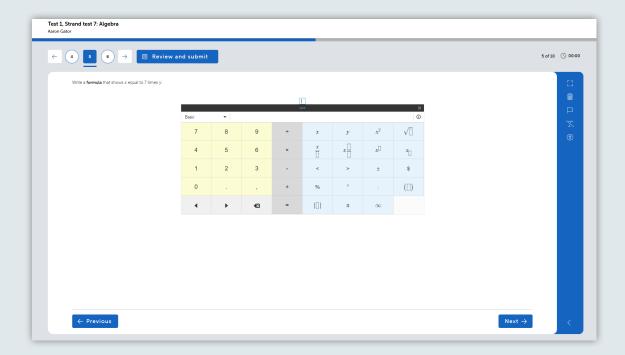
To help track progress and determine if learners are developing the right set of skills, each learning sequence has three activities of varying difficulty levels learners can do: easy, medium and hard.





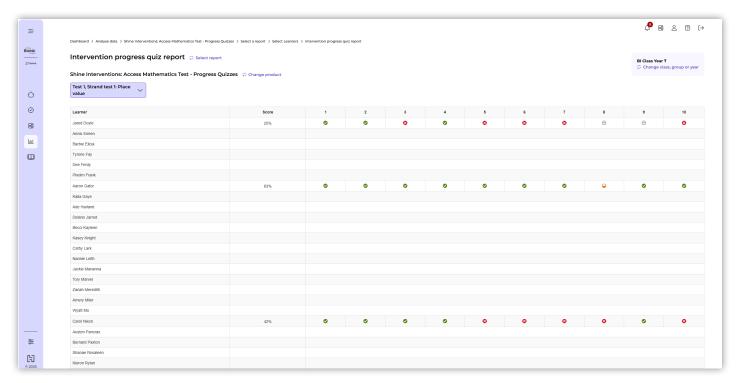
# **Progress Quizzes**

You can track progress by assigning a progress quiz for the relevant strand in Boost Insights.

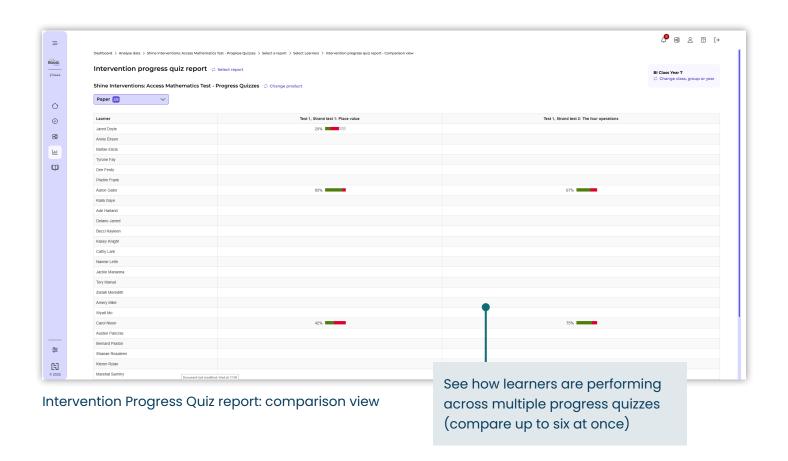


# **Progress Quiz Reports**

You can also track how learners are performing in the Progress Quizzes (one for each learning sequence) with the Progress Quiz reports. There are two types of reports: Intervention progress quiz report and Intervention progress quiz report: comparison view



Intervention Progress Quiz report



# Get in touch

Get hands on with **Shine Interventions: AMT** by contacting your local Assessment Consultant.



Email: education@hachette.co.uk



**Tel:** 01235 827720

